

Service Manual

Radio

RF-6300LBS

Supplement-1

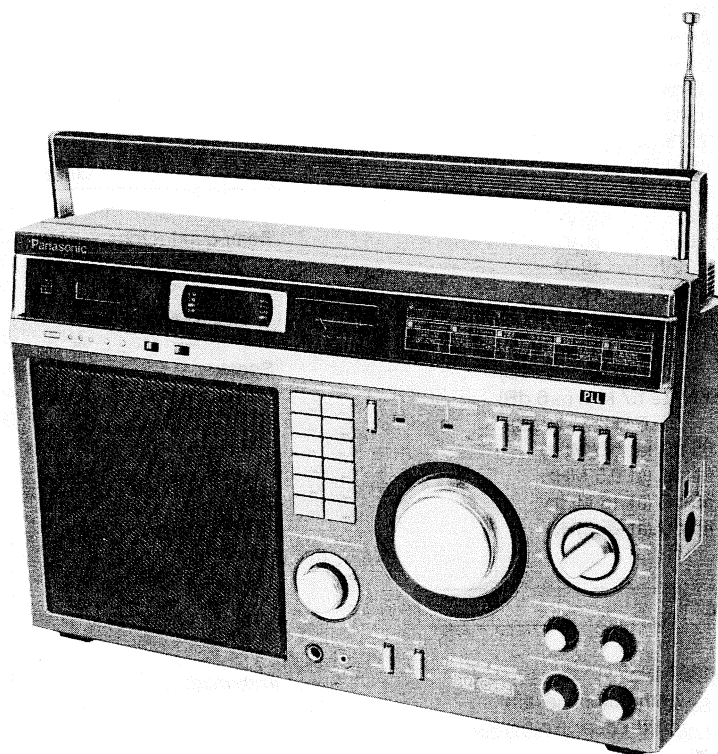
FM-LW-MW-SW Multi-Band Receiver
with Phase-Locked-Loop Synthesizer

Main change.

- * Change of Circuit Board.

How to Distinguish the model between RF-6300LBS and RF-6300LBS supplement-1.

- * The suffix is changed from A to C.



SPECIFICATIONS

LW/MW/SW1

Frequency Range:	LW 150~410kHz (2000~732 m)
	MW 520~1610kHz (577~186 m)
	SW1 1.6~3.9 MHz (187~76.9 m)
Type:	Single Superheterodyne with Phase-Locked-Loop Synthesizer
IF:	455 kHz
Sensitivity:	S/N 6dB S/N 26 dB
	LW 70 μ V/m 600 μ V/m
	MW 30 μ V/m 400 μ V/m
	SW1 30 μ V/m 400 μ V/m
	(Modulation 400Hz, 30% for 50mW)
Selectivity:	WIDE \pm 2.5kHz (-6dB)
	\pm 15kHz (-60dB)
	NARROW \pm 1.7kHz (-6dB)
	\pm 6kHz (-60dB)
Image Interference Ratio:	LW 45 dB (at 280 kHz)
	MW 40 dB (at 1000 kHz)
	SW1 50 dB (at 2.8 MHz)

SW2~5

Frequency Range:	SW2 3.9~7.0 MHz (76.9~42.9 m)
	SW3 7.0~12.0 MHz (42.9~25 m)
	SW4 12.0~20.0 MHz (25~15 m)
	SW5 20.0~30.0 MHz (15~10 m)
Type:	Double Superheterodyne with Phase-Locked-Loop Synthesizer
IF:	1 st IF 2.6 MHz
	2nd IF 455 kHz
Sensitivity:	S/N 6 dB S/N 26 dB
	SW2 1.2 μ V 12 μ V
	SW3 0.8 μ V 8 μ V
	SW4 1.0 μ V 10 μ V
	SW5 1.0 μ V 10 μ V
	(Modulation 400 Hz, 30% for 50 mW)
Selectivity:	WIDE \pm 2.5 kHz (-6 dB)
	\pm 15 kHz (-60dB)
	NARROW \pm 1.7 kHz (-6 dB)
	\pm 6 kHz (-60dB)
Image Interference Ratio:	SW2 65 dB (at 5.5 MHz)
	SW3 60 dB (at 9.5 MHz)
	SW4 55 dB (at 16 MHz)
	SW5 45 dB (at 25 MHz)

FM

Frequency Range:	87.5~108 MHz
Type:	Single Superheterodyne with Phase-Locked-Loop Synthesizer
IF:	10.7 MHz
Sensitivity:	2 μ V/75 Ω (-3 dB, Limit. Sens.)
	2.5 μ V/75 Ω (S/N 26 dB)
Two-Signal Selectivity:	70 dB (\pm 400 kHz)
Image Interference Ratio:	50 dB (at 98 MHz)

Frequency Display

Display Type:	7-Segment Fluorescent Tube
Precision:	Direct Readout to 1 kHz for AM
	Direct Readout to 10 kHz for FM

Number of Figures:
Frequency Stability:

5 digits
Within 100 Hz during any 60 minutes after warm-up

Tuning

Type:	Click-Stop, Rotary Encoder
	Digital Tuning
Tuning Speed Ratio:	Fast:Slow = 10:1

Preset Memory

Number of Preset:	12-Station Preset
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Clock

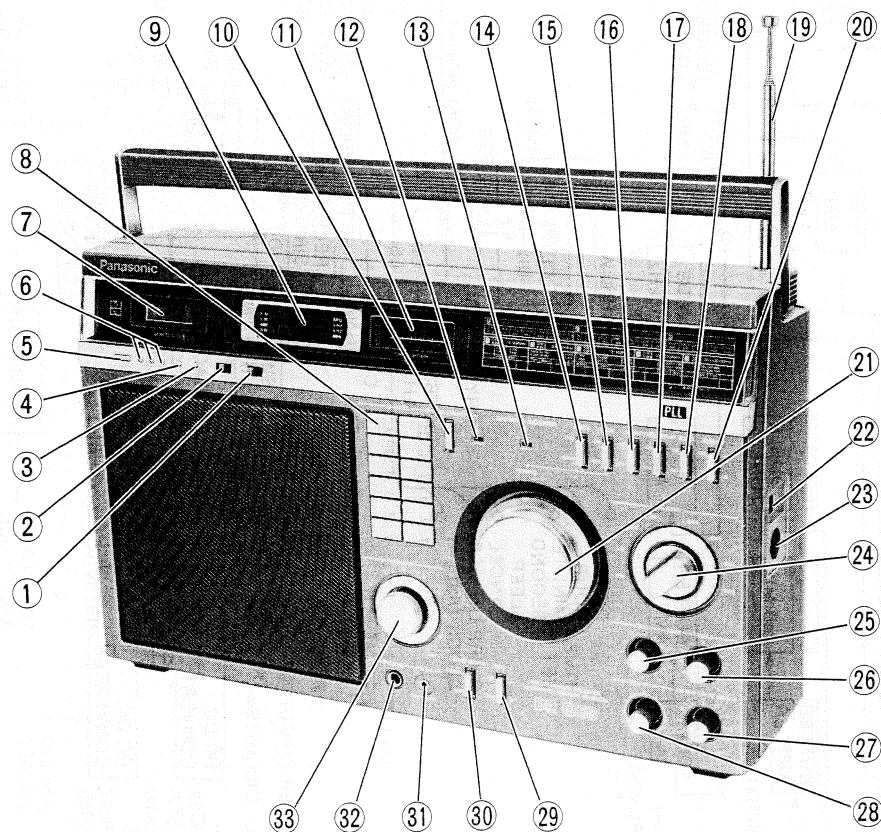
Type:	LCD Quartz Clock
Function:	Real Time (Hour, Minute, Second)
	Display Alarm Time (Hour Minute)
	Display
	Doze
	Sleep
	Wake-up to Radio or Chirp Alarm
	Sleep/Alarm Cancel
Precision:	Monthly Difference \pm 15 seconds.
	(16°C temperature, 50% humidity)

General Specifications

Semi-conductors:	IC 17
	Transistor 87
	FET 8
Output Power:	4 W (DC; MAX.)
	4W (AC, MPO)
Speaker:	12cm (8 Ω)
Power Source:	AC 110~125/220~240V, 50/60 Hz
	DC 9V (6 x UM-1, "D")
	6V (4 x UM-3, "AA") ... Back-up for Memory & Clock
	DC in 9V
Power Consumption:	15 W
Jacks:	Earphone/External Speaker (3.5 ϕ)
	Headphones (6 ϕ)
	Rec out/Phono (DIN Type)
	AC in
	DC in
Antennas:	FM/SW Whip Antenna 1010 mm
	LW/MW Ferrite Core Antenna
	10 ϕ x 180 mm
	SW1 Ferrite Core Antenna
	10 ϕ x 100 mm
	FM/LW/MW/SW
	External Antenna (one-touch)
Dimensions (W x H x D):	435 x 281 x 131 mm
	(17-1/8 x 11-1/16 x 5-3/16)
Weight:	5.2 kg (11 lb. 7.4 oz)
	without batteries

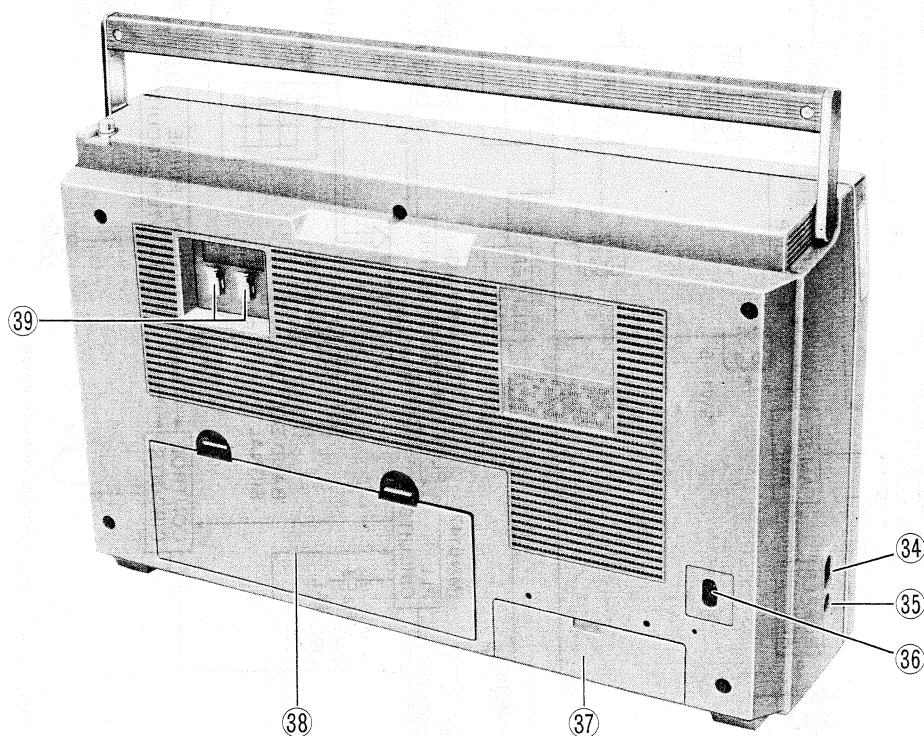
Specifications subject to change without notice.

LOCATION OF CONTROLS



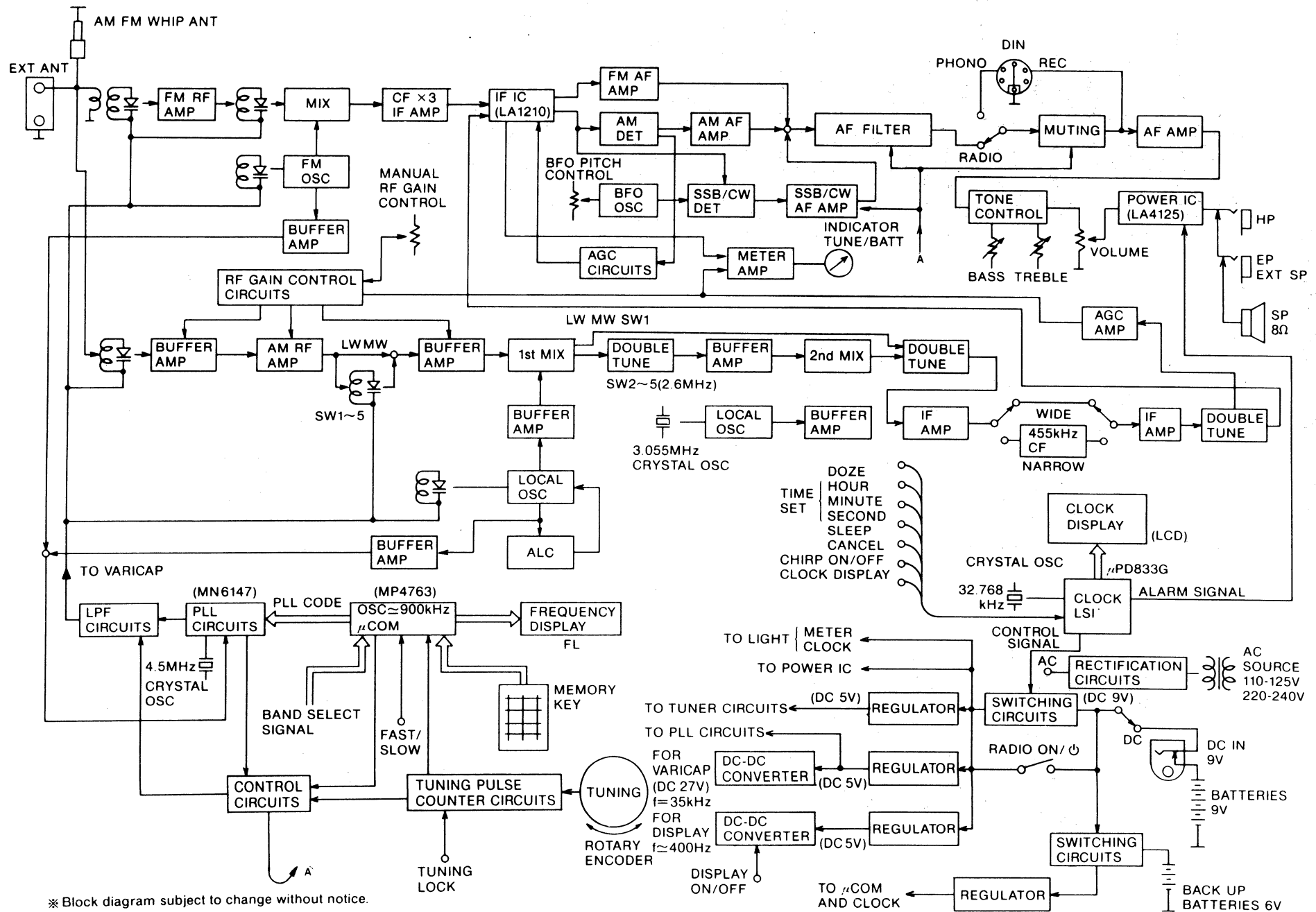
[Fig. 1]

- ① Clock Display Selector (Time/Sec/Alarm)
- ② Chirp Switch
- ③ Sleep/Alarm Cancel Button
- ④ Sleep Set Button
- ⑤ Doze Button
- ⑥ Time Set Button (H/M/S)
- ⑦ Clock Display
- ⑧ Preset Channel Button
- ⑨ Digital Frequency Display
- ⑩ Cancel/Memory Button
- ⑪ Tuning/Battery Meter
- ⑫ Memory Indicator
- ⑬ Operation Indicator
- ⑭ Tuning Speed Selector (Fast/Slow)
- ⑮ Tuning Lock Switch
- ⑯ Light Switch
- ⑰ Digital Frequency Display Switch
- ⑱ Auto Switch
- ⑲ Telescopic Antenna
- ⑳ Radio Switch
- ㉑ Tuning Control
- ㉒ Radio/Phone Selector
- ㉓ DIN Connector Jack
- ㉔ Band Selector (FM/LW/MW/SW₁/SW₂/SW₃/SW₄/SW₅)
- ㉕ Bass Control
- ㉖ Treble Control
- ㉗ LW/MW/SW RF Gain Control
- ㉘ BFO Pitch Control
- ㉙ BFO On/Off Switch
- ㉚ Band Width Selector (Narrow/Wide)
- ㉛ Earphone/External Speaker Jack (Imp 8Ω only)
- ㉜ Headphones Jack
- ㉝ Volume Control
- ㉞ AC Socket
- ㉟ DC IN Jack
- ㊱ AC Voltage Selector
- ㊲ Clock/Memory Back-up Battery Compartment
- ㊳ Main Battery Compartment
- ㊴ External Antenna Terminal



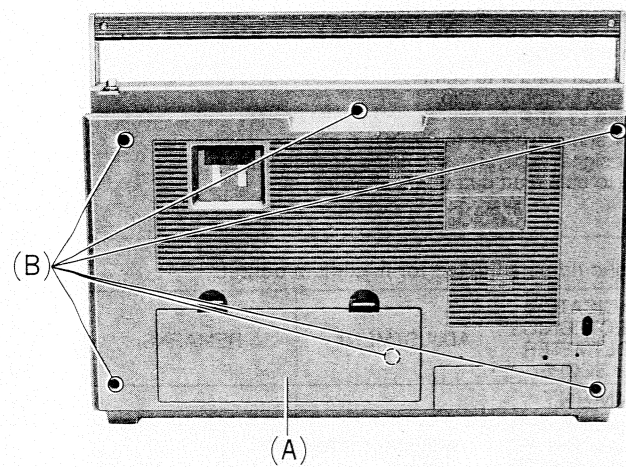
[Fig. 2]

BLOCK DIAGRAM

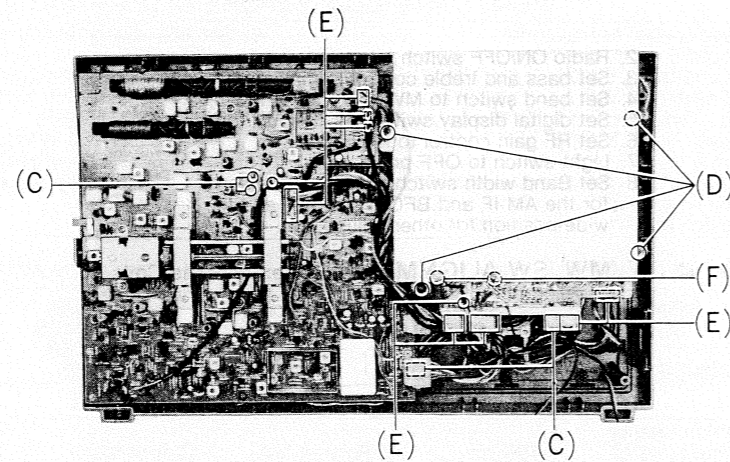


* Block diagram subject to change without notice.

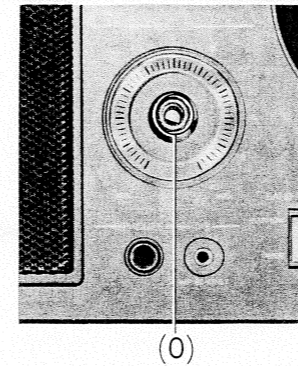
DISASSEMBLY INSTRUCTIONS



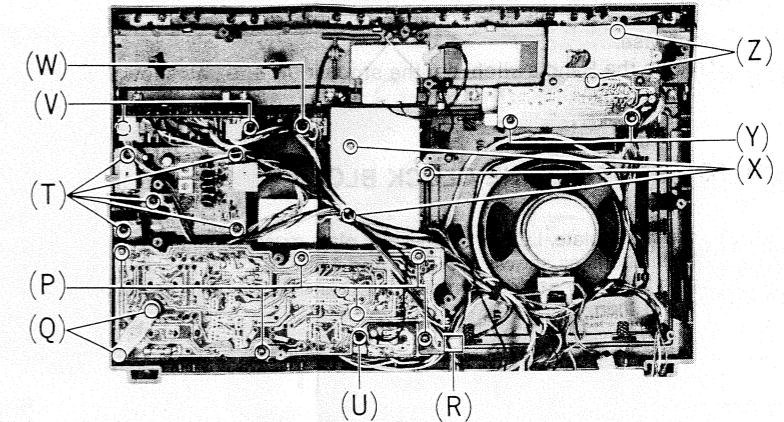
[Fig. 3]



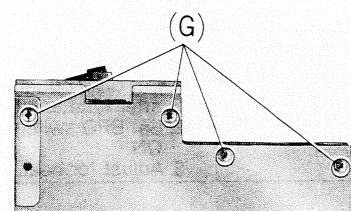
[Fig. 4]



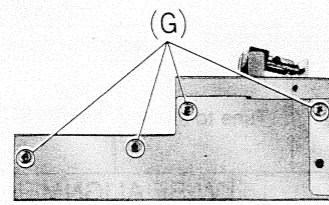
[Fig. 13]



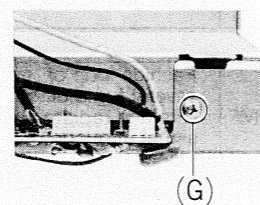
[Fig. 14]



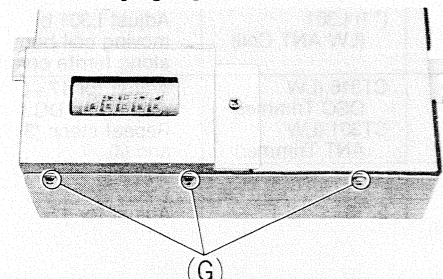
[Fig. 5]



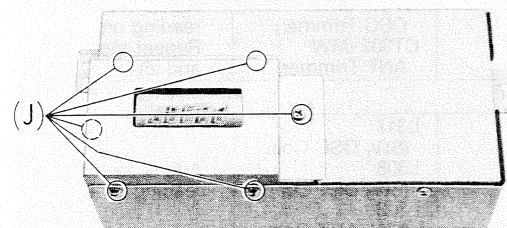
[Fig. 6]



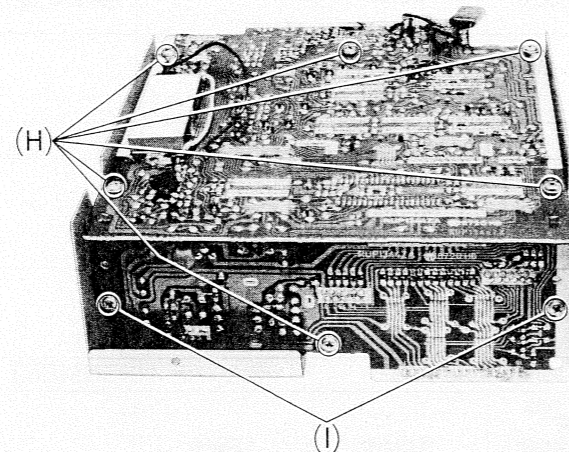
[Fig. 7]



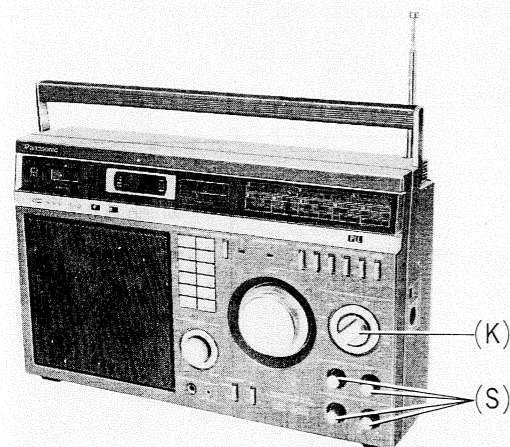
[Fig. 8]



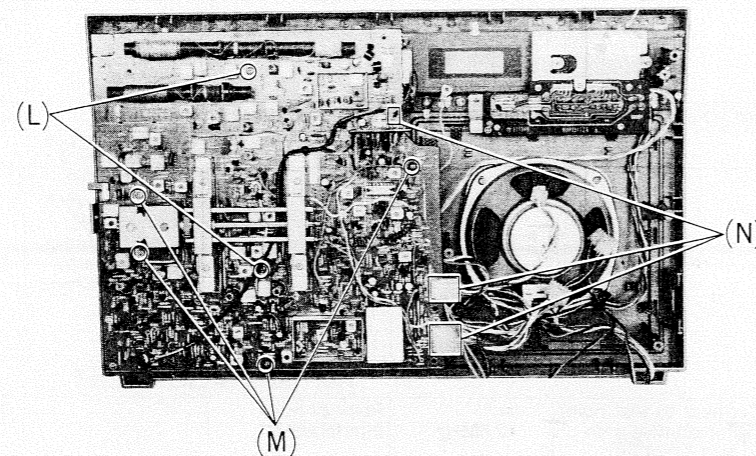
[Fig. 9]



[Fig. 10]



[Fig. 11]



[Fig. 12]

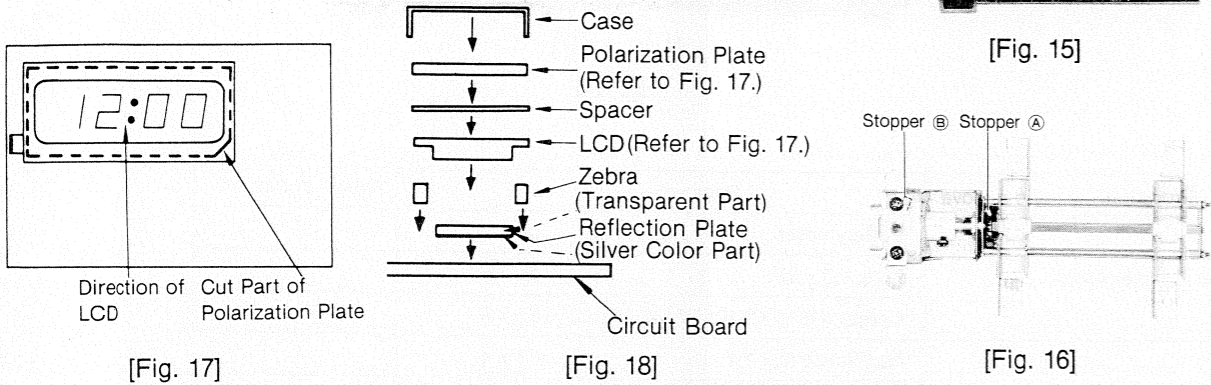
Procedure	To remove —	Remove —	Shown in Fig. —
1	Rear Cabinet Ass'y	Battery cover (A) x 1	3
2		Screw (3 x 35) (B) x 6	3
3		Cocket (CS16, CS10, TM101, TM102) . . (C) x 4	4
4	PLL Block	Red Screw (3 x 12) (D) x 4	4
5		Socket (CS 18, 17, 15, 14, 7, 3, TM1, TM7, TM103, 104) (E) x 10	4
6	PLL Circuit Board (3.4 UP)	Unsolder (F) x 2	4
7		Screw (3 x 6) (G) x 12	5-8
8		Screw (3 x 6) (H) x 6	10
9	Frequency Counter	Screw (3 x 6) (I) x 2	10
10		Screw (3 x 6) (J) x 6	9
11	Tuner Circuit Board (IUP)	Band Knob (K) x 1	11
12		Red screw (3 x 12) (L) x 2	12
13		Red screw (3 x 12) (M) x 4	12
14	Control Circuit Board (2UPa)	Socket (CS2, 5, 6) (N) x 3	12
15		Volume knob & Nut (O) x 1	13
16		Red screw (3 x 12) (P) x 6	14
17		Screw (3 x 35) (Q) x 2	14
18		Socket (CS8) (R) x 1	14
19	DIN Jack Circuit Board (7 UP)	Knob (S) x 4	11
20		Screw (3 x 12) (T) x 5	14
21	Headphone Jack Circuit Board (2 UPe)	Screw (3 x 12) (U) x 1	14
22	Switch Circuit Board (2UPb)	Screw (3 x 12) (V) x 2	14
23	LED Circuit Board (2UPd)	Screw (3 x 12) (W) x 1	14
24	Channel/Memory Circuit Board (2UPc)	Screw (3 x 12) (X) x 3	14
25	Clock/Clock Adjust	Screw (3 x 6) (Y) x 2	14
26	Circuit Board (6UP)	Screw (2.3 x 8) (Z) x 2	14

HOW TO ASSEMBLE THE BAND SWITCH ASS'Y

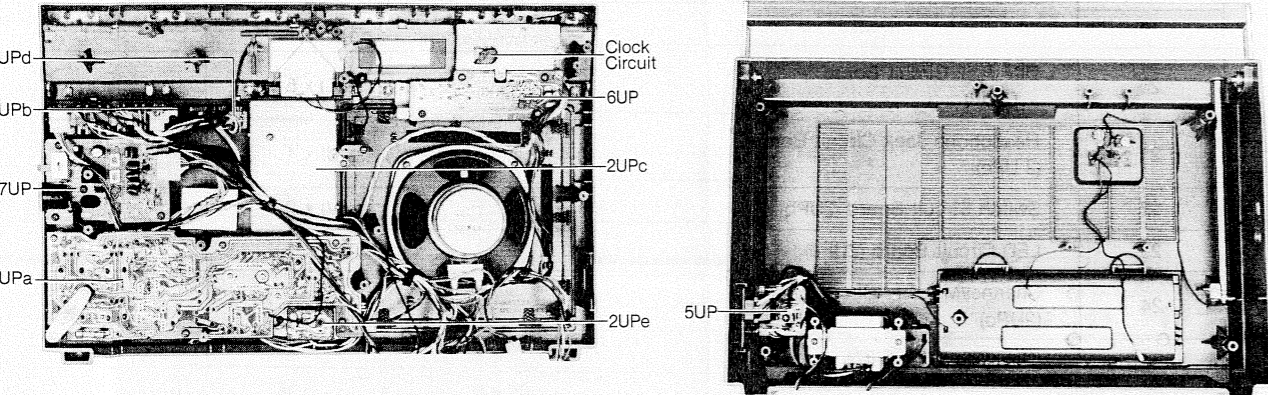
- 1. When fix the Band switch Ass'y, set the switch Lever in the direction of arrow as shown in Fig. 15, and set Band switch rotate switch shaft counter-clockwise.
- 2. When assemble the Band switch, set the stopper (A) & (B), as shown in Fig. 16.

HOW TO ASSEMBLY THE CLOCK BLOCK

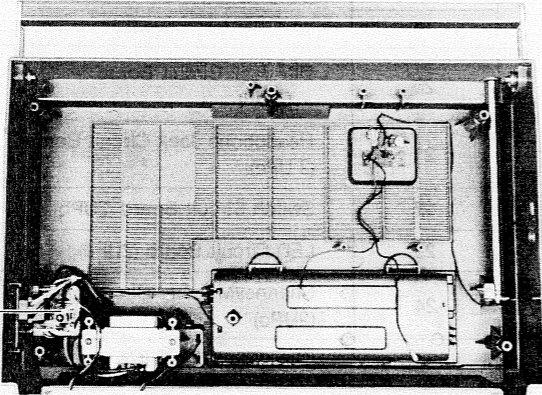
- 1. Note that polarization plate, LCD and reflection plate must be installed under the specified conditions as shown in Fig. 17 and 18.
- 2. Before replacing with new polarization plate, LCD and reflection plate remove the sheet cover of then.



1UPa	Tuner Circuit Board
1UPb	Meter Circuit Board
2UPa	AF Circuit Board
2UPb	Switch Circuit Board
2UPc	Key Board Circuit Board
2UPd	LED Circuit Board
2UPe	Headphone Jack Circuit Board
3UPa	Control Circuit Board
3UPb	Frequency Display Circuit Board
4UP	PLL Circuit Board
5UP	Power Circuit Board
6UP	Switch Circuit Board (Clock)
7UP	DIN Jack & Filter Circuit Board



[Fig. 20]



[Fig. 21]

ALIGNMENTS

ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT					
1. Set volume control to maximum.	2. Radio ON/OFF switch to ON.	3. Set bass and treble control to maximum.	4. Set band switch to MW, LW, SW or FM.	5. Set digital display switch to OFF position.	6. Set RF gain control to Maximum.
7. Light switch to OFF position.	8. Set Band width switch to narrow position for the AM-IF and BFO adjustmet, and to wide position for other adjustment.	9. Set BFO switch to ON position for BFO adjustment, and to OFF position for other adjustment.	10. Set BFO Pitch control to center.	11. Radio/Phono switch to radio.	12. Auto switch to OFF.
13. Set power source voltage to 9V DC.	14. Output of signal generator should be no higher than necessary to obtain an output reading.				

LW, MW, SW ALIGNMENT Note: Antenna Coils and Trimmers should be adjusted for maximum output.

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
AM-2nd IF ALIGNMENT						
(1) MW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	455kHz 30% Mode. at 400Hz	Point of non-interference.	Output meter across voice coil.	T203 (AM 1st IFT) T207 (AM 2nd IFT) T208 (AM 3rd IFT) T201 (AM 4th IFT) T202 (AM 5th IFT) T103 (AM 6th IFT)	Adjust for maximum output.
BFO ALIGNMENT Note: Set band width switch to "Narrow".						
(2) MW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	1000kHz	Tune to signal.	Audio output from speaker.	L203 (BFO OSC Coil)	1. Cut off modulation after tune to signal. 2. Set BFO switch to ON. 3. Adjust for beat.
LW-RF ALIGNMENT						
(3) LW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	150kHz	150kHz	Connect DC VTVM between 1 and 2	L314 (LW OSC Coil) (*1) L301 (LW ANT Coil)	Adjust for 1.5±0.1V reading on DC VTVM. Adjust L301 by moving coil bobbin along ferrite core.
(4) LW	"	400kHz	400kHz	"	CT316 (LW OSC Trimmer) CT301 (LW ANT Trimmer)	Adjust for 17±0.3V reading on DC VTVM. Repeat steps (3) and (4).
MW-RF ALIGNMENT						
(5) MW	"	550kHz	550kHz	"	L316 (MW OSC Coil) (*1) L301 (MW ANT Coil)	Adjust for 1.5±0.1V reading on DC VTVM Adjust L301 by moving coil bobbin along ferrite core.
(6) MW	"	1500kHz	1500kHz	"	CT317 (MW OSC Trimmer) CT302 (MW ANT Trimmer)	Adjust for 17.5±0.2V reading on DC VTVM. Repeat steps (5) and (6).
SW ₁ -RF ALIGNMENT						
(7) SW ₁	Connect to test point to through ceramic capacitor (10pF). Negative side to test point	1.6MHz	1.6MHz	"	L317 (SW ₁ OSC Coil) L308 (SW ₁ DET Coil) L303 (SW ₁ ANT Coil)	Adjust for 1.5±0.1V reading on DC VTVM.
(8) SW ₁	"	3.9MHz	3.9MHz	"	CT318 (SW ₁ OSC Trimmer) CT309 (SW ₁ DET Trimmer) CT303 (SW ₁ ANT Trimmer)	Adjust for 17±0.3V reading on DC VTVM. Repeat steps (7) and (8).
(*1) Cement antenna bobbin with wax after completing alignment.						
SW 1st LOCAL ALIGNMENT						
(9) SW ₂	"	"	Point of non-interference.	• Connect RF VTVM between 8 and 9 • Connect Frequency Counter between 8 and 9	L204 (SW 1st OSC Coil)	• Adjust L204 to a point which is 0.2~0.3dB below the value at which the peak value was shown on the RF Voltmeter. • Adjust L204 for 3.055MHz reading on Frequency Counter.
AM-1st IF ALIGNMENT						
(10) SW ₂	Connect to test point 101. Negative side to test Point 102.	2.6MHz	Point of non-interference.	"	T204 (AM 1st IFT) T206 (AM 1st IFT)	Adust for maximum output.

SW ₂ -RF ALIGNMENT						
(11)	SW ₂	Connect to test point 107 through ceramic capacitor (18PF). Negative side to test point 102.	3.9MHz	3.9MHz	Connect DC VTVM between 7 and E.	L318 (SW ₂ OSC Coil) L309 (SW ₂ DET Coil) L304 (SW ₂ ANT Coil) Adjust for 3±0.1V reading on DC VTVM.
(12)	SW ₂	"	7MHz	7MHz	"	CT319 (SW ₂ OSC Trimmer) CT311 (SW ₂ DET Trimmer) CT304 (SW ₂ ANT Trimmer) Adjust for 17±0.3V reading on DC VTVM. Repeat steps (11) and (12).
SW ₃ -RF ALIGNMENT						
(13)	SW ₃	"	7MHz	7MHz	"	L319 (SW ₃ OSC Coil) L311 (SW ₃ DET Coil) L305 (SW ₃ ANT Coil) Adjust for 3±0.1V reading on DC VTVM.
(14)	SW ₃	"	12MHz	12MHz	"	CT321 (SW ₃ OSC Trimmer) CT312 (SW ₃ DET Trimmer) CT306 (SW ₃ ANT Trimmer) Adjust for 17±0.3V reading on DC VTVM. Repeat steps (13) and (14).
SW ₄ -RF ALIGNMENT						
(15)	SW ₄	"	12MHz	12MHz	"	L321 (SW ₄ OSC Coil) L312 (SW ₄ DET Coil) L306 (SW ₄ ANT Coil) Adjust for 5±0.1V reading on DC VTVM.
(16)	SW ₄	"	20MHz	20MHz	"	CT322 (SW ₄ OSC Trimmer) CT313 (SW ₄ DET Trimmer) CT307 (SW ₄ ANT Trimmer) Adjust for 15±0.3V reading on DC VTVM. Repeat steps (15) and (16).
SW ₅ -RF ALIGNMENT						
(17)	SW ₅	"	20MHz	20MHz	"	L322 (SW ₅ OSC Coil) L313 (SW ₅ DET Coil) L307 (SW ₅ ANT Coil) Adjust for 6±0.1V reading on DC VTVM.
(18)	SW ₅	"	30MHz	30MHz	"	CT323 (SW ₅ OSC Trimmer) CT314 (SW ₅ DET Trimmer) CT308 (SW ₅ ANT Trimmer) Adjust for 15±0.3V reading on DC VTVM. Repeat steps (17) and (18).

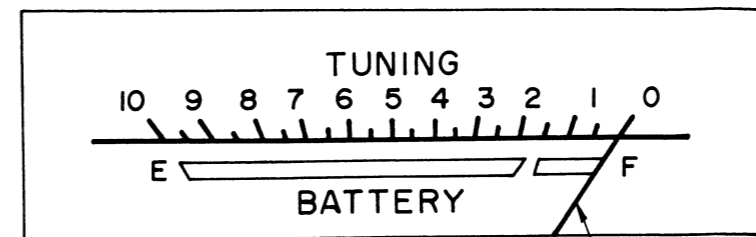
FM ALINMENT

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (VTVM or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
(1)	FM	Connect to test point 107 through 0.001μF. Negative side to test point 102.	10.7MHz	Point of non-interference.	T101 (FM IFT) (Primary)	Adjust for maximum amplitude. (Refer to fig. 23.)
(2)	FM	"	"	"	T102 (FM IFT) (Secondary)	Adjust for maximum amplitude. (Refer to fig. 24.)
FM-RF ALIGNMENT						
(3)	FM	Connect to test point 107 through FM dummy antenna. (Refer to fig. 25).	87.5MHz	87.5MHz	Connect DC VTVM between 7 and E.	L104 (FM OSC Coil) (*2) Adjust for 3.0±0.1V reading on DC VTVM.
(4)	FM	"	90.5MHz	90.5MHz	"	L101 (FM DET Coil) L102 (FM ANT Coil) (*2) Adjust for maximum output.
(5)	FM	"	106MHz	106MHz	"	CT101 (FM DET Trimmer) CT102 (FM ANT Trimmer)
(6)	FM	"	108MHz	108MHz	"	CT103 (FM OSC Trimmer) (*2) Adjust for 11±0.5V reading on DC VTVM. Repeat steps (3)~(6).

(*2) Three output responses will be preset; proper tuning is the center frequency.

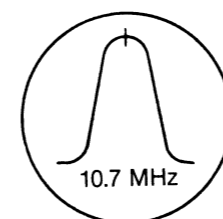
TUNE/BATT METER ADJUSTMENT

1. RADIO RECEIVER SETTING
 - Set band switch to MW.
 - Set volume control MIN.
 - Set Phono/Radio switch to Radio.
 - Set power source voltage to 9.8 volts DC.
 - Frequency Display switch to ON.
 - Light switch to OFF.
2. REMARKS
 - Adjust VR101 so that the pointer of meter says as shown in figure, 22.

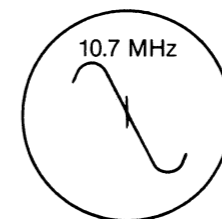


[Fig. 22]

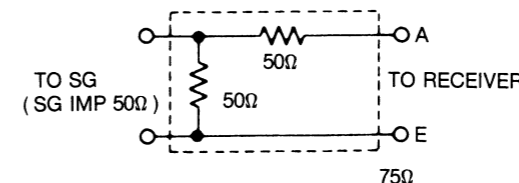
Pointer



[Fig. 23]

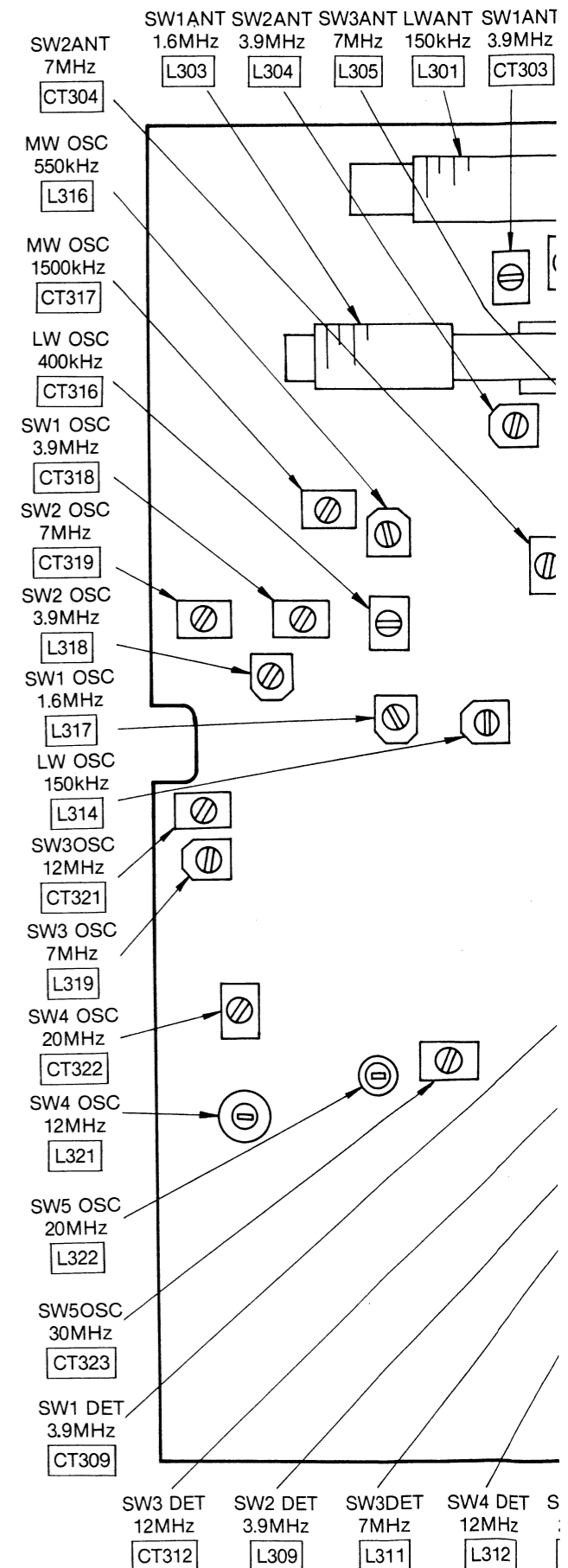


[Fig. 24]



[Fig. 25] FM Dummy Antenna

ALIGNMENT POINTS



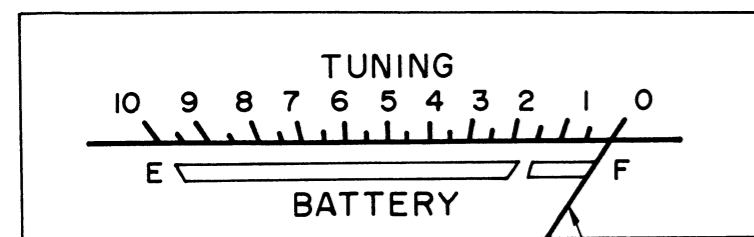
■ TUNE/BATT METER ADJUSTMENT

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- Frequency Display switch to ON.
- Light switch to OFF.

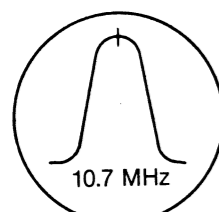
2. REMARKS

- Adjust VR101 so that the pointer of meter says as shown in figure, 22.

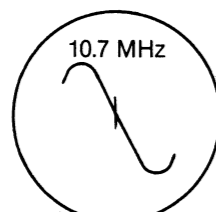


[Fig. 22]

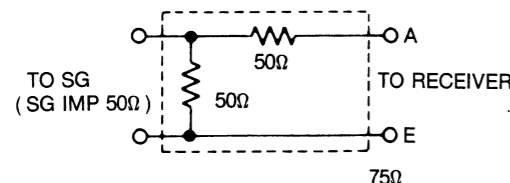
Pointer



[Fig. 23]

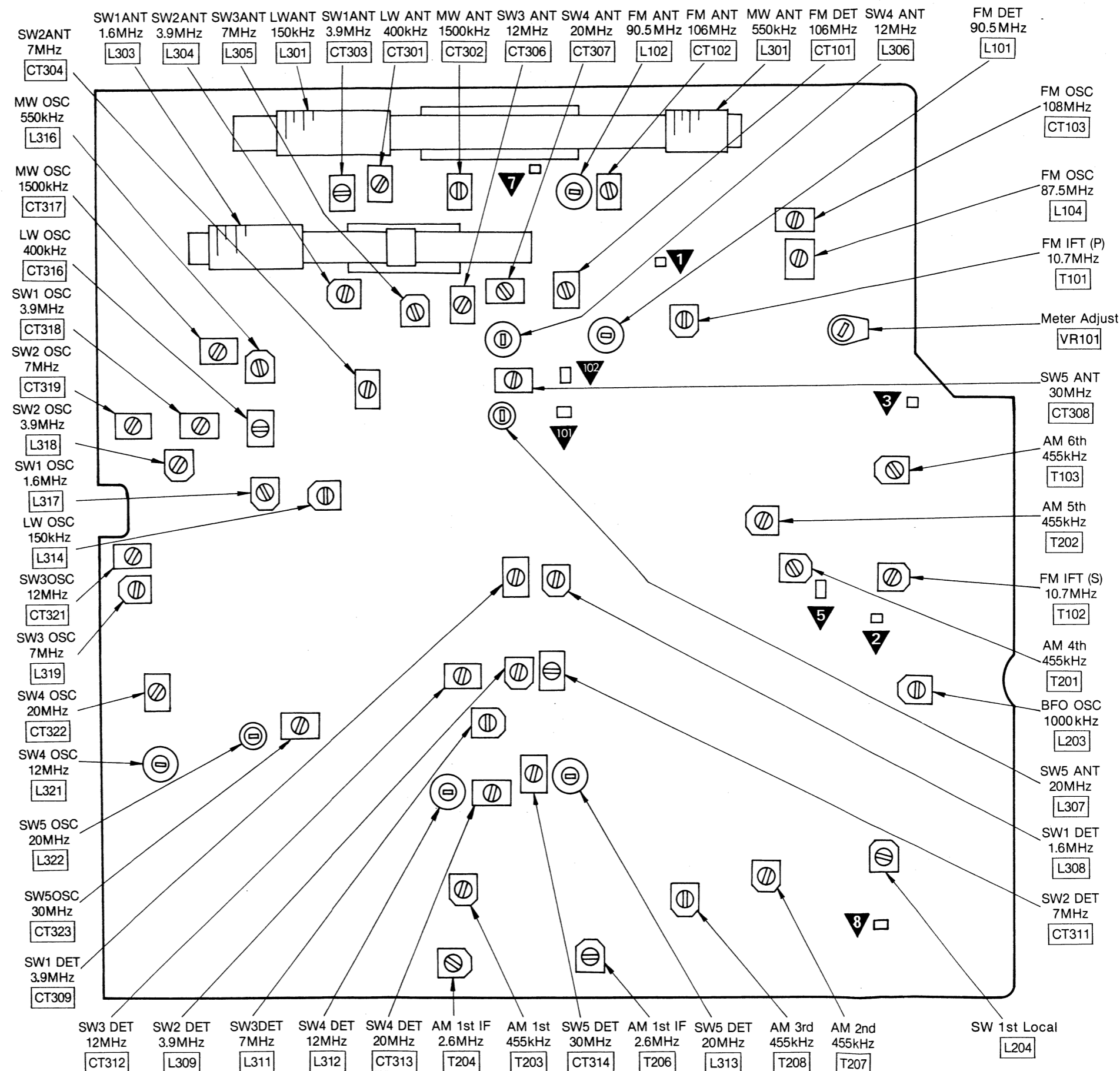


[Fig. 24]



[Fig. 25] FM Dummy Antenna

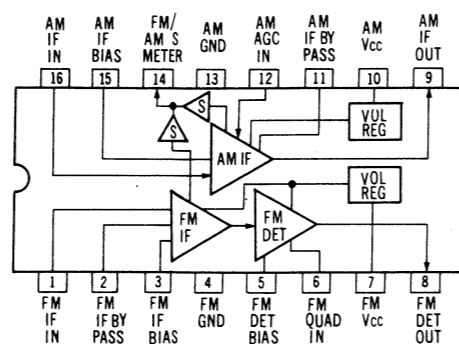
■ ALIGNMENT POINTS



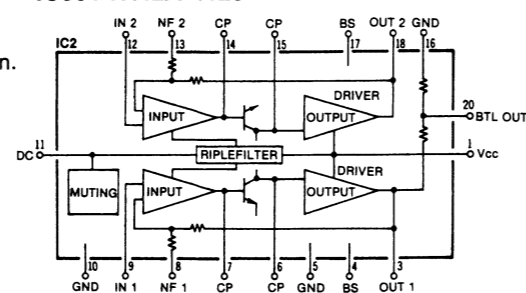
Notes:

1. S1 Radio ON/OFF switch in "OFF ()" position.
2. S2-1, S2-2 Auto ON/OFF switch in "OFF" position.
3. S3 Display ON/OFF switch in "OFF" position.
4. S4 Light ON/OFF switch in "OFF" position.
5. S5 Tuning Lock ON/OFF switch in "OFF" position.
6. S6 Tuning speed Slow/Fast switch in "slow" position.
7. S7 AC voltage selector switch in "220 ~ 240V" position.
8. S8 Power supply AC/DC switch in "AC" position.
9. S9-1, S9-2 BFO ON/OFF switch in "OFF" position.
10. S10-1, S10-2 Band width Wide/Narrow switch in "Wide" position.
11. S24-1 ~ S24-3 Radio/Phono switch in "Radio" position.
12. S301-1 ~ S301-6, S302-1 ~ S302-6 Band selector switch in "FM" position.
(1...SW5, 2...SW4, 3...SW3, 4...SW2, 9...SW1, 10...MW, 11...LW, 12...FM)
13. The mark (▼) shows test point. e.g., ▼ = Test point 1.
14. DC voltage measurements are taken with electronics voltmeter from negative terminal of battery.
 □ ...FM position, () ...AM position, [] ...LW position,
 < > ...SW5 position, [] ...BFO ON position, < > ...SW4 position.
15. Battery current: No signal. 220 mA
Maximum 1A
16. ▲ indicates that only parts specified by the manufacture be used for safety.

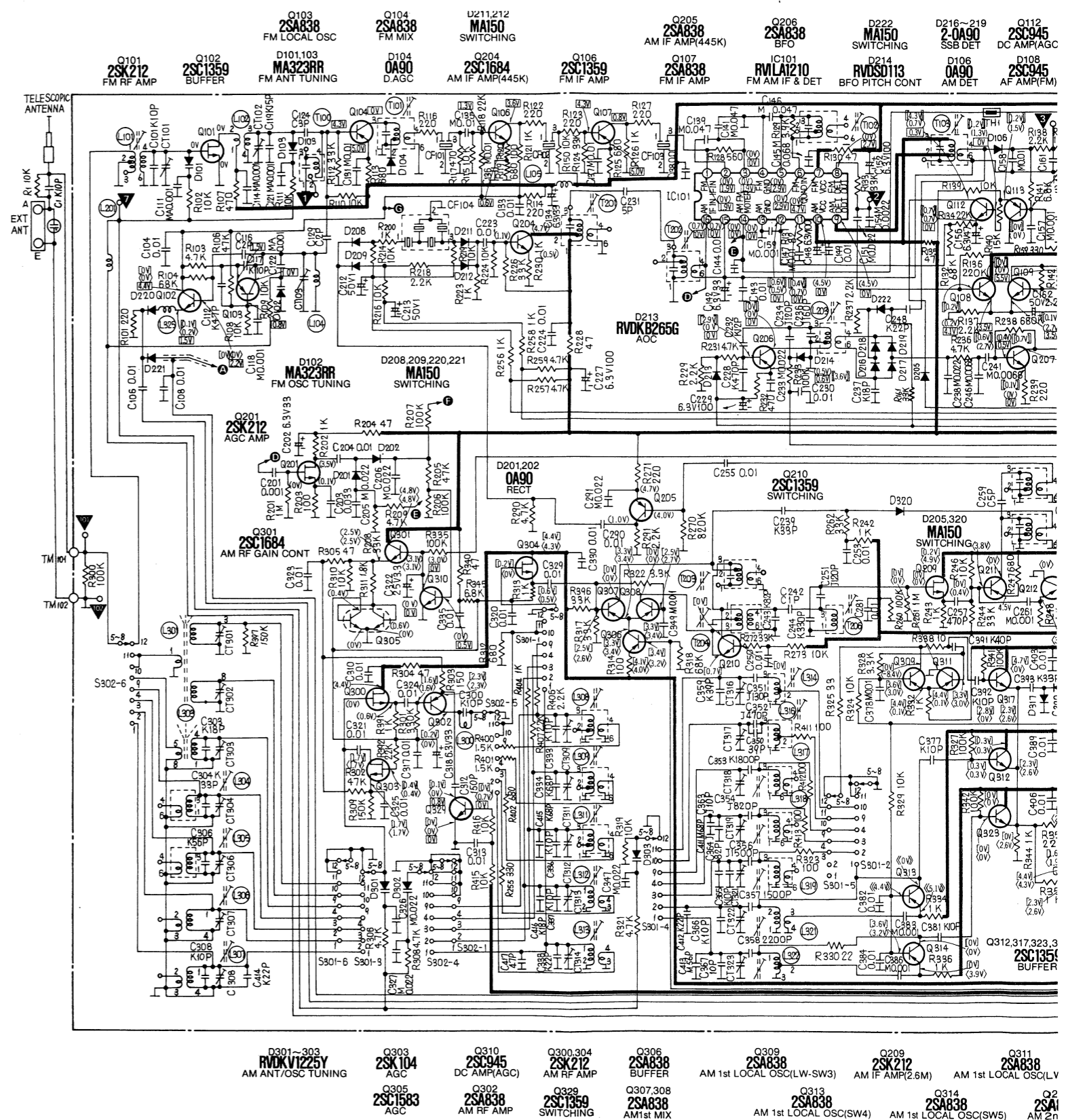
IC101 RVILA 1210



IC901 RVILA 4125

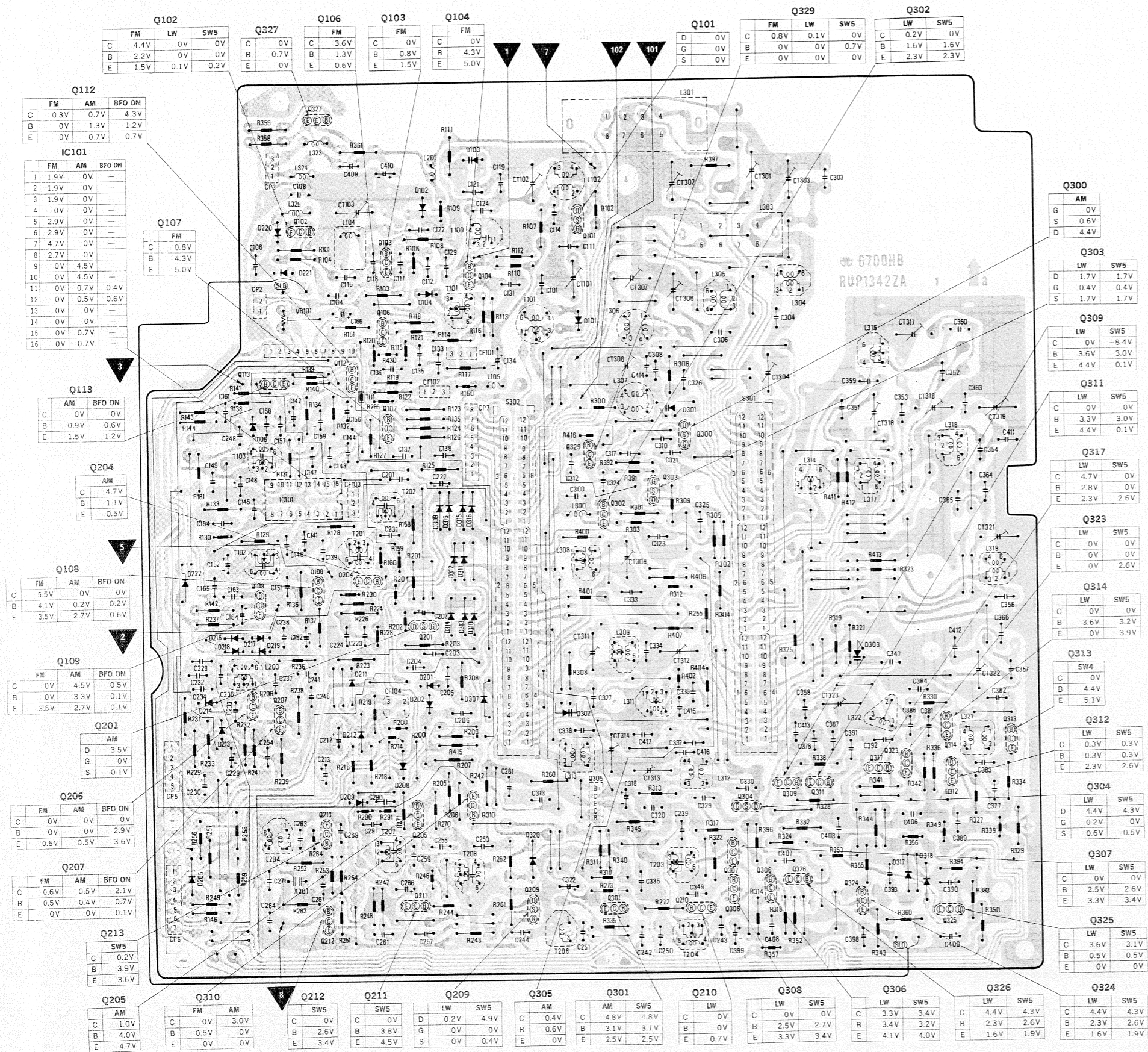


SCHEMATIC DIAGRAM (TUNER, AF, DIN JACK & FILTER, SWITCH, MI

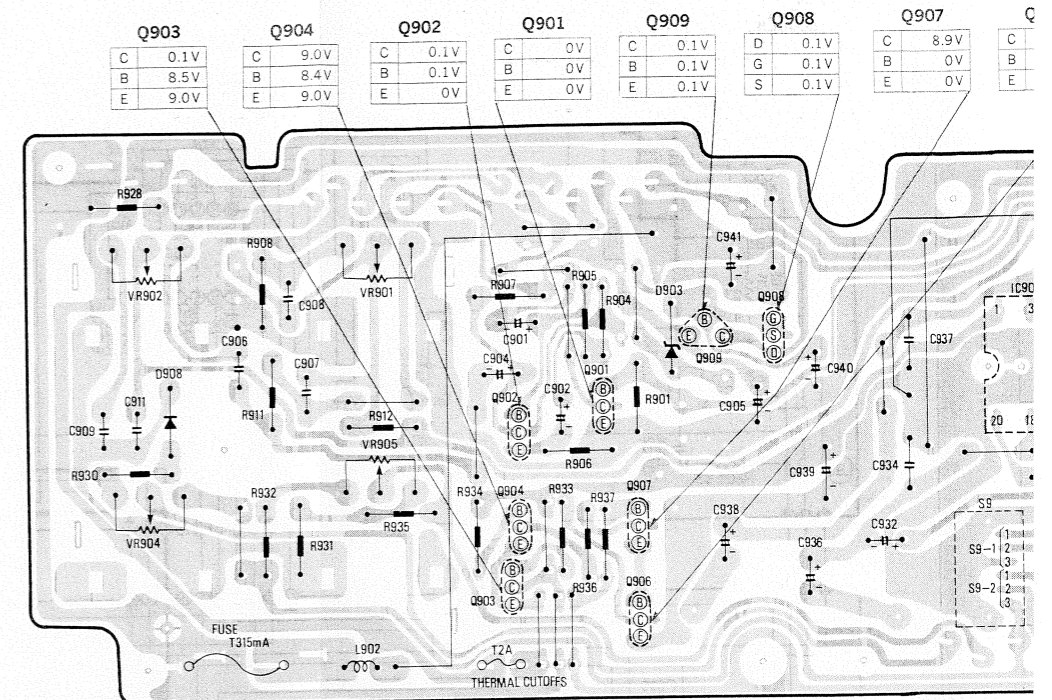


IC101	IC901	Q101, 201, 209, 300, 304, 908	Q102 ~ 104, 106 ~ 109, Q112, 113, 115 ~ 117, 204 ~ 207, 210 ~ 213, 301, 302, 306 ~ 314, 317, 323 ~ 327, 329, 901, 902, 903, 904, 906, 907, 909, 951 ~ 954
Q303	Q305	D101 ~ 103	D104, 106, 201, 202
D301, 302, 303	D107, 108, D205, 208, 209, 211, 212, 220, 221, 222, 307 ~ 318, 320, 903, 904 ~ 909	D213	D216 ~ 219
D901, 902	D901, 902	D901, 902	D901, 902

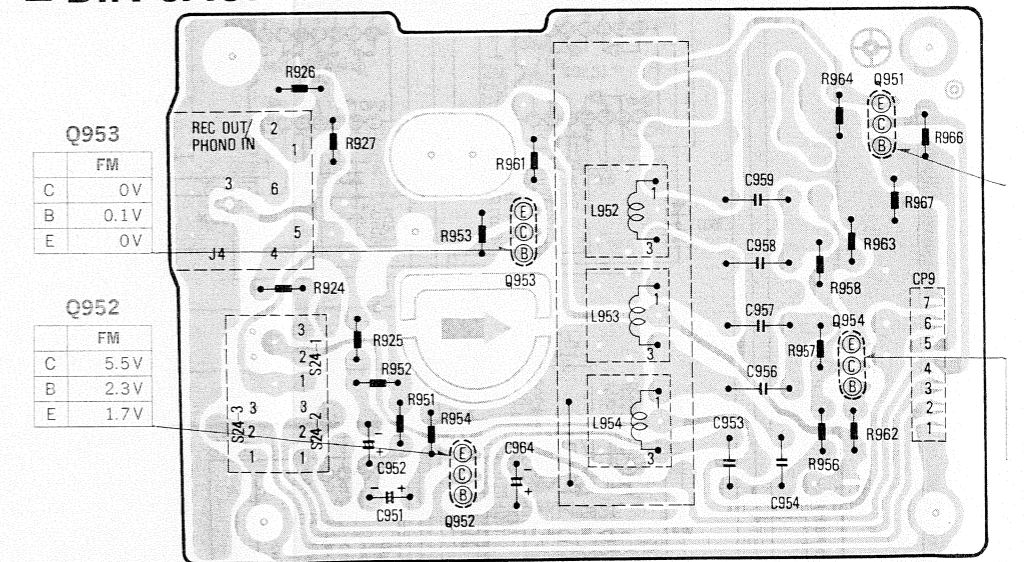
■ TUNER CIRCUIT BOARD



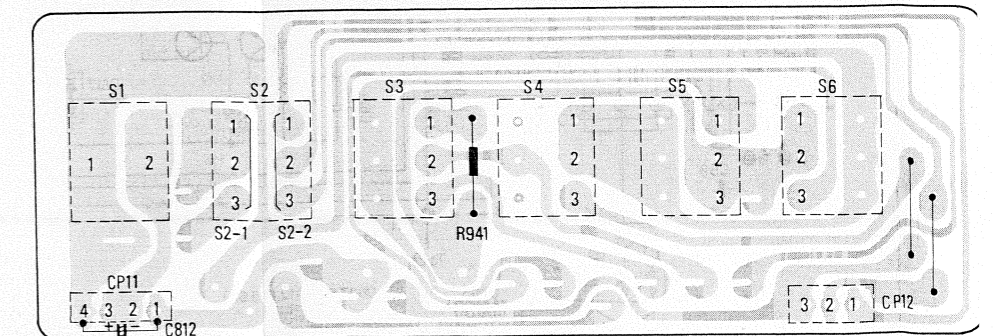
■ AF CIRCUIT BOARD



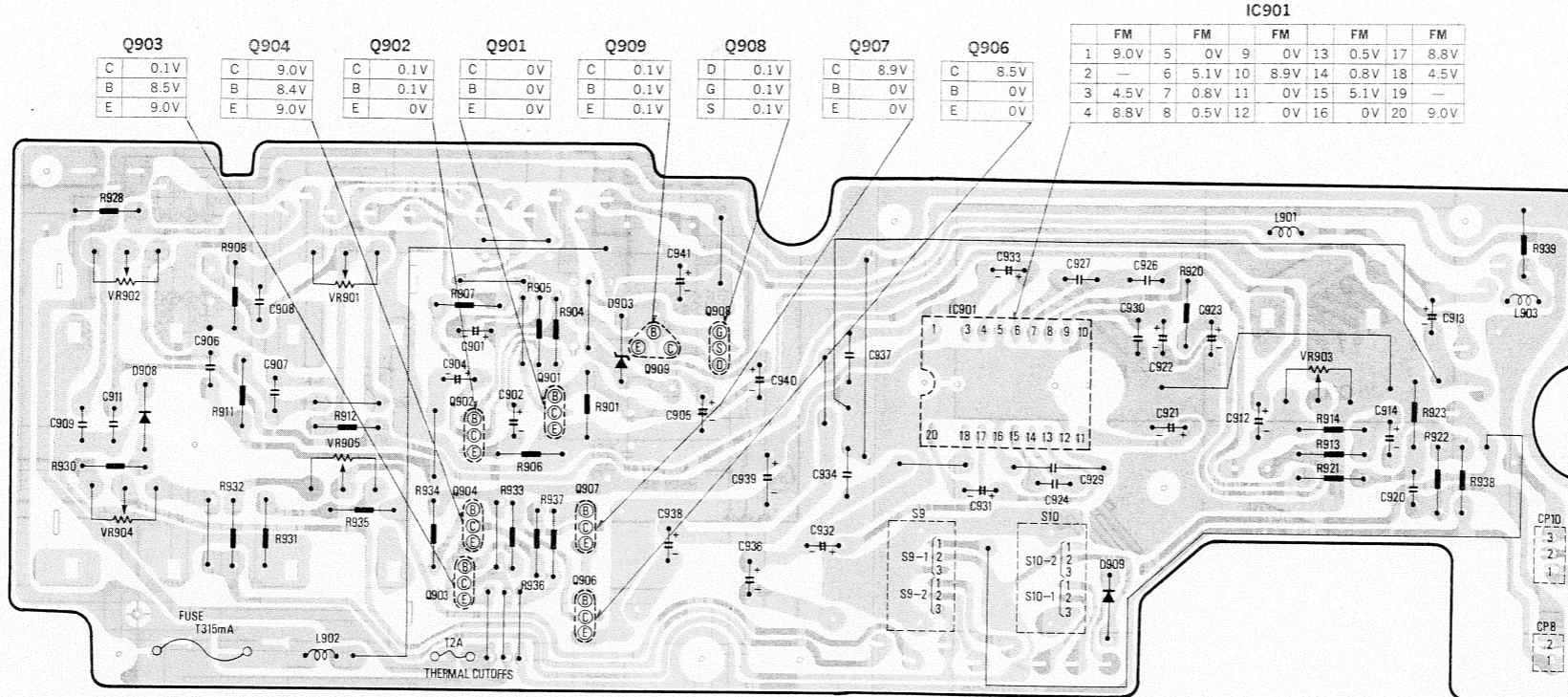
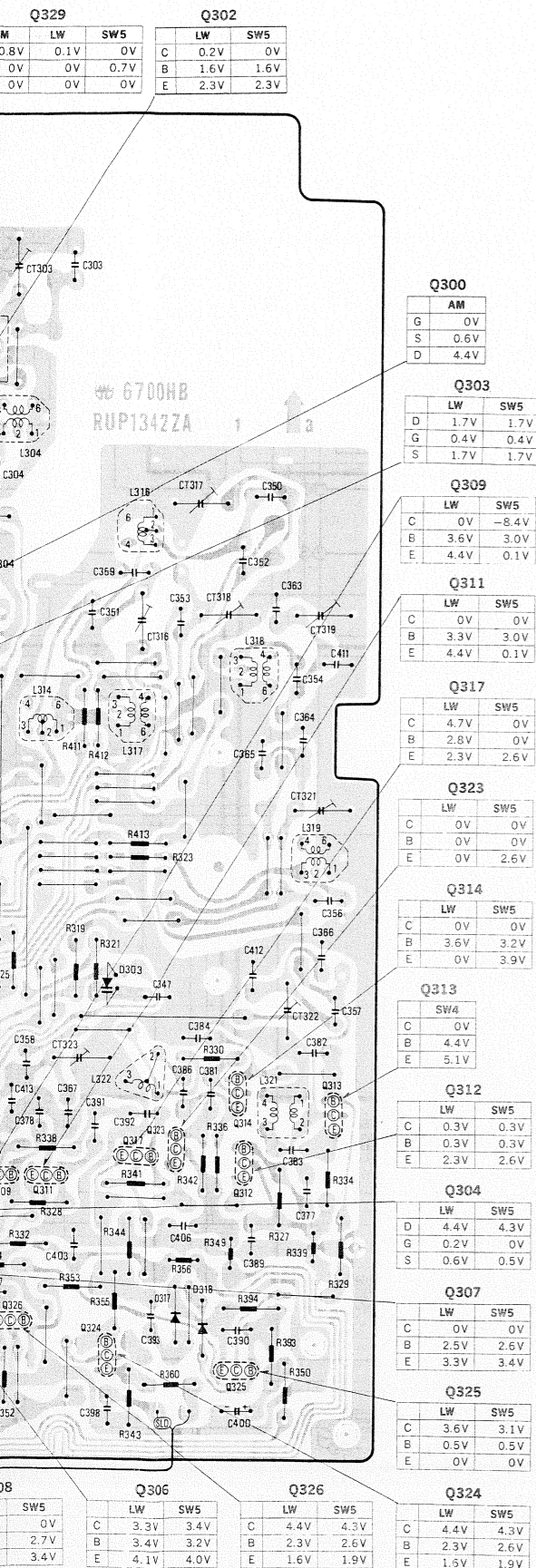
■ DIN JACK & FILTER CIRCUIT BOARD



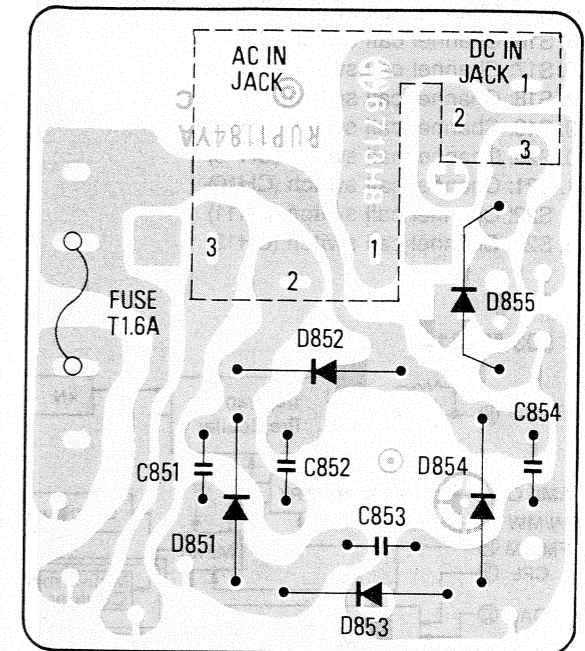
■ SWITCH CIRCUIT BOARD



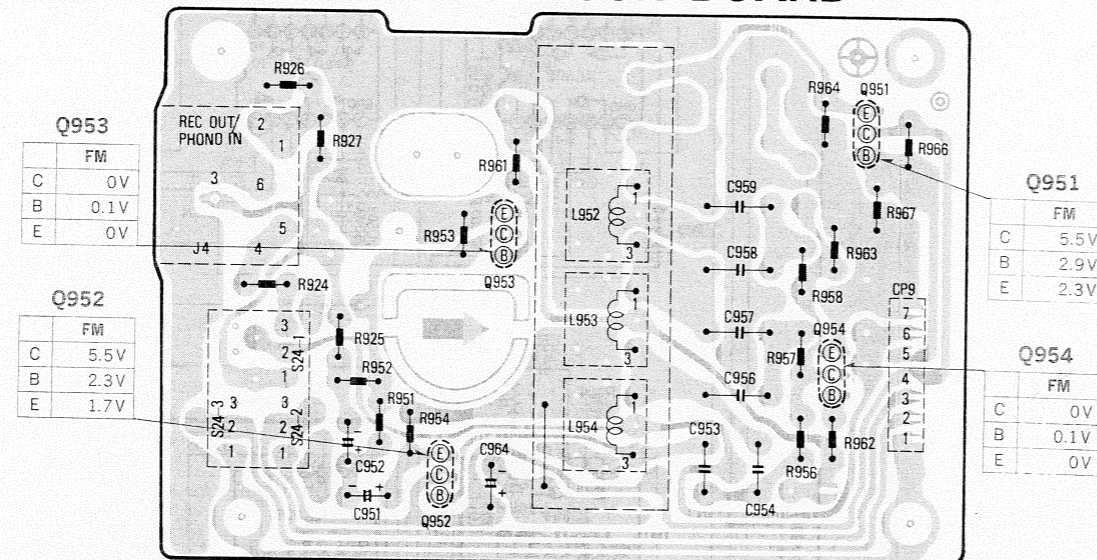
■ AF CIRCUIT BOARD



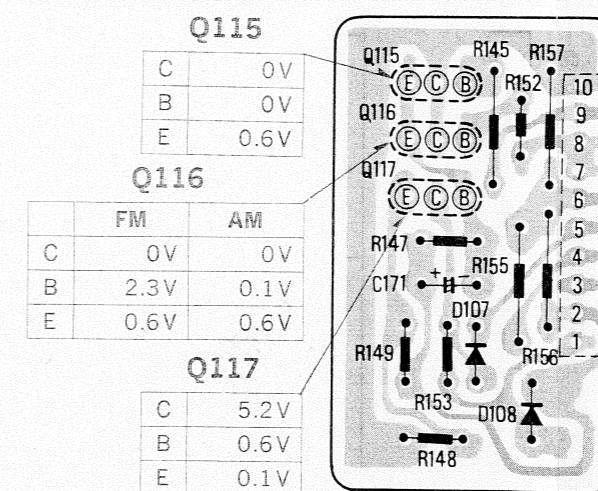
■ POWER CIRCUIT BOARD



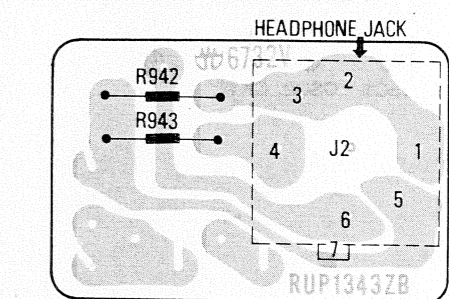
■ DIN JACK & FILTER CIRCUIT BOARD



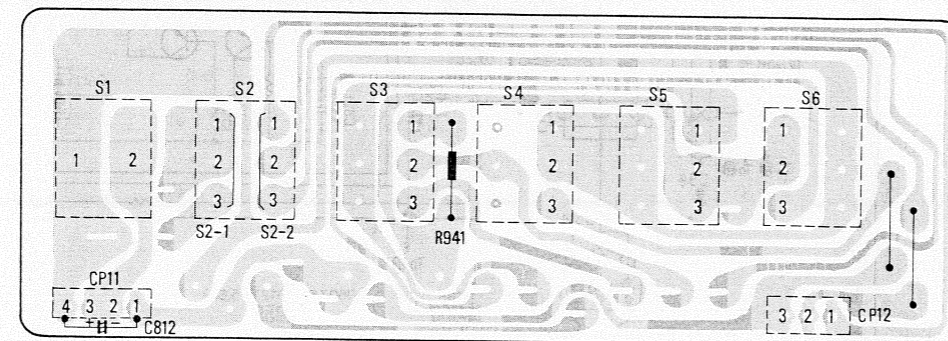
■ METER CIRCUIT BOARD



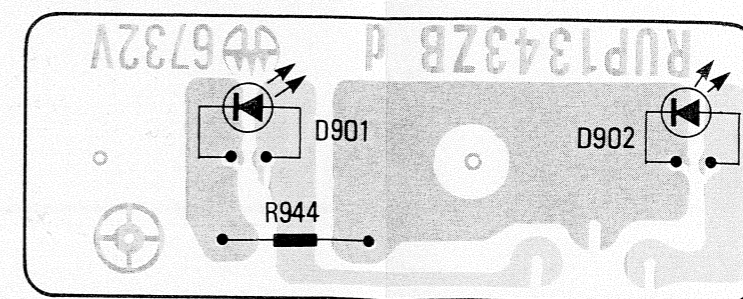
■ HEADPHONE JACK CIRCUIT BOARD



■ SWITCH CIRCUIT BOARD



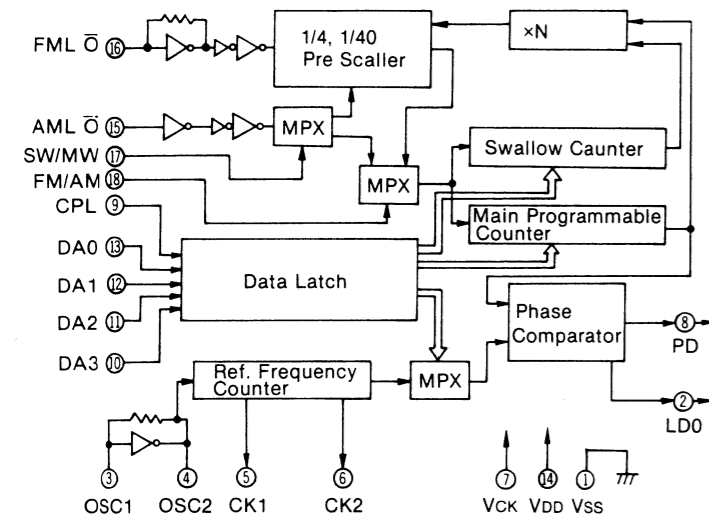
■ LED CIRCUIT BOARD



Notes:

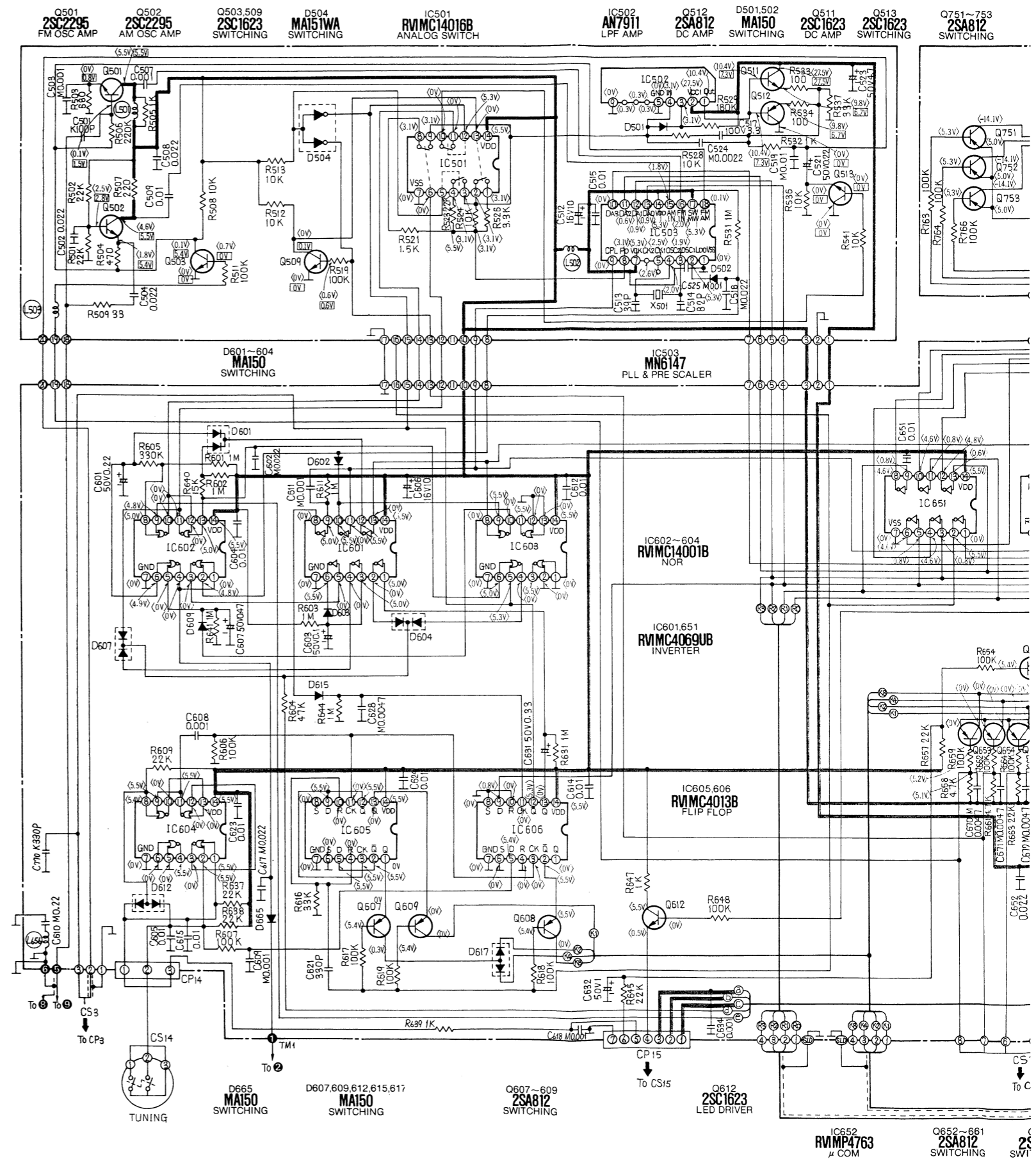
1. S11: Memory switch.
2. S12: Channel call switch (CH 1)
3. S13: Channel call switch (CH 2)
4. S14: Channel call switch (CH 3)
5. S15: Channel call switch (CH 4)
6. S16: Channel call switch (CH 5)
7. S17: Channel call switch (CH 6)
8. S18: Channel call switch (CH 7)
9. S19: Channel call switch (CH 8)
10. S20: Channel call switch (CH 9)
11. S21: Channel call switch (CH10)
12. S22: Channel call switch (CH11)
13. S23: Channel call switch (CH12)

IC 503 MN6147

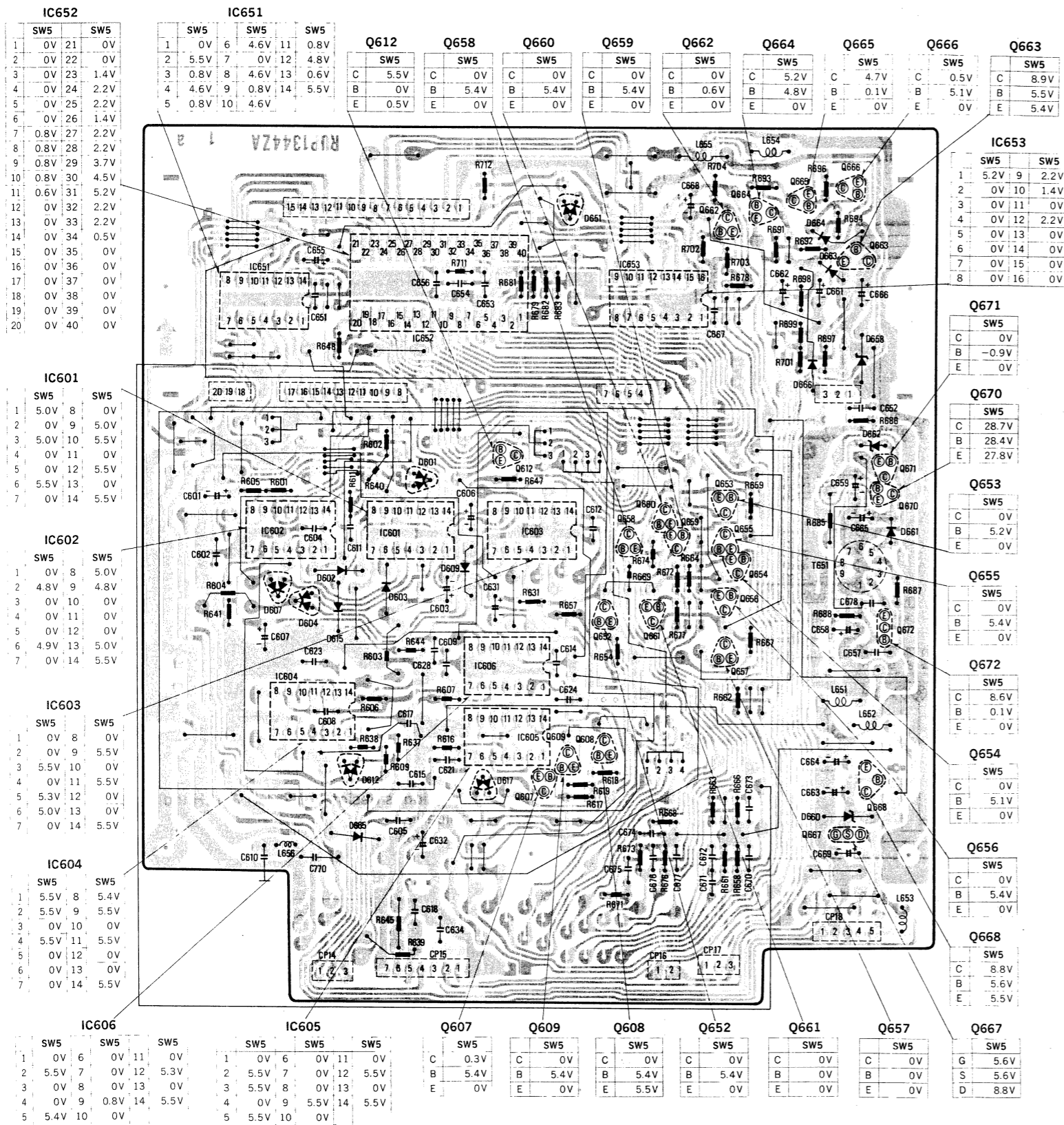


	 D501, 502, 602, 603, 609, 615, 661, 664, 665, 751, 752, 658, 660, 753, 662
	 Anode D663, 666

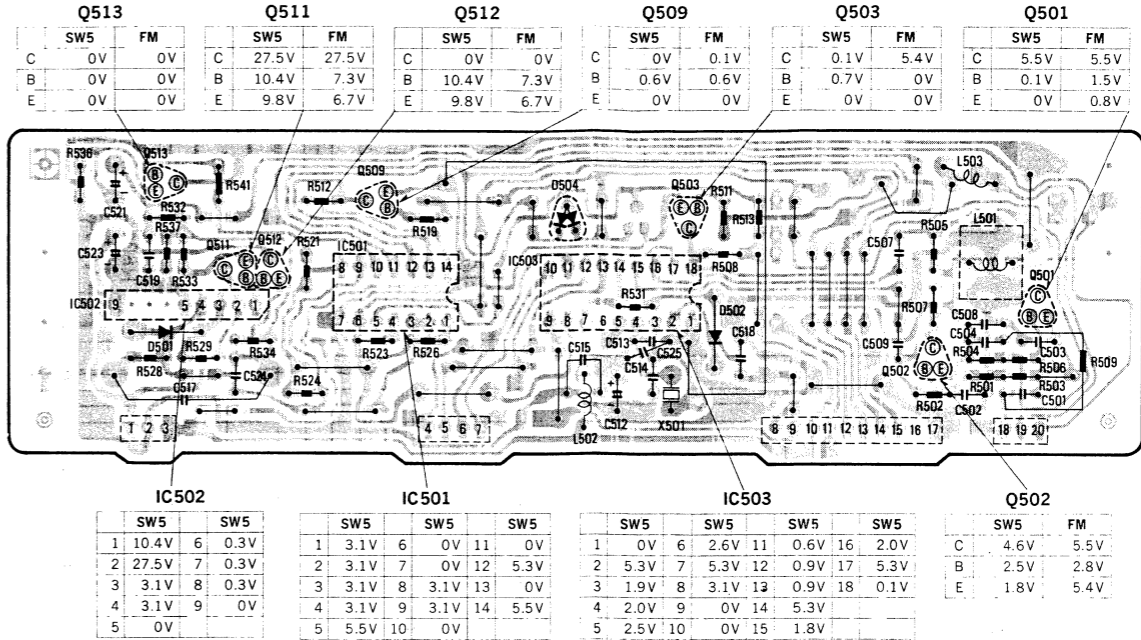
SCHEMATIC DIAGRAM (CONTROL, FREQUENCY DISPLA



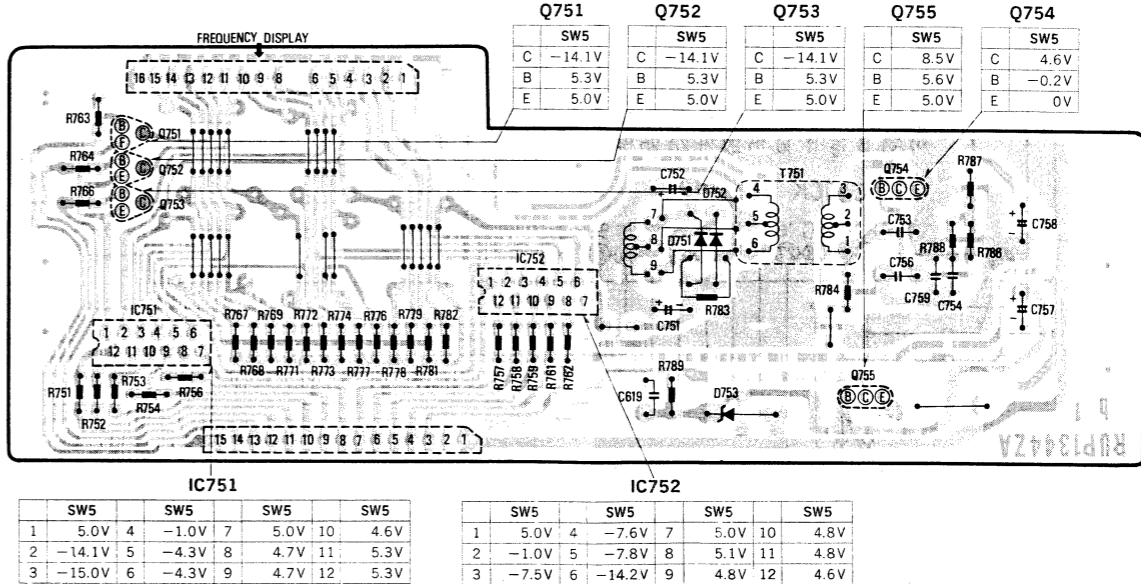
■ CONTROL CIRCUIT BOARD



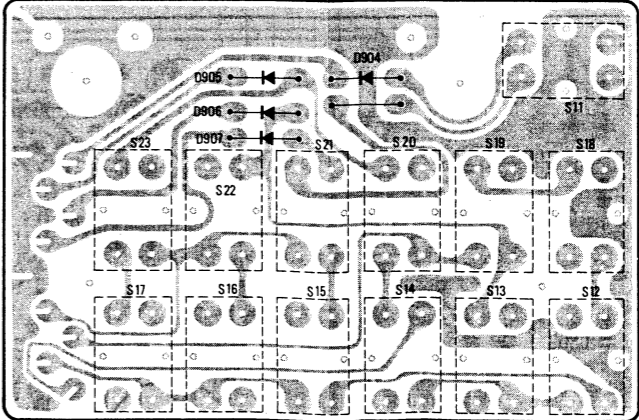
■ PLL CIRCUIT BOARD



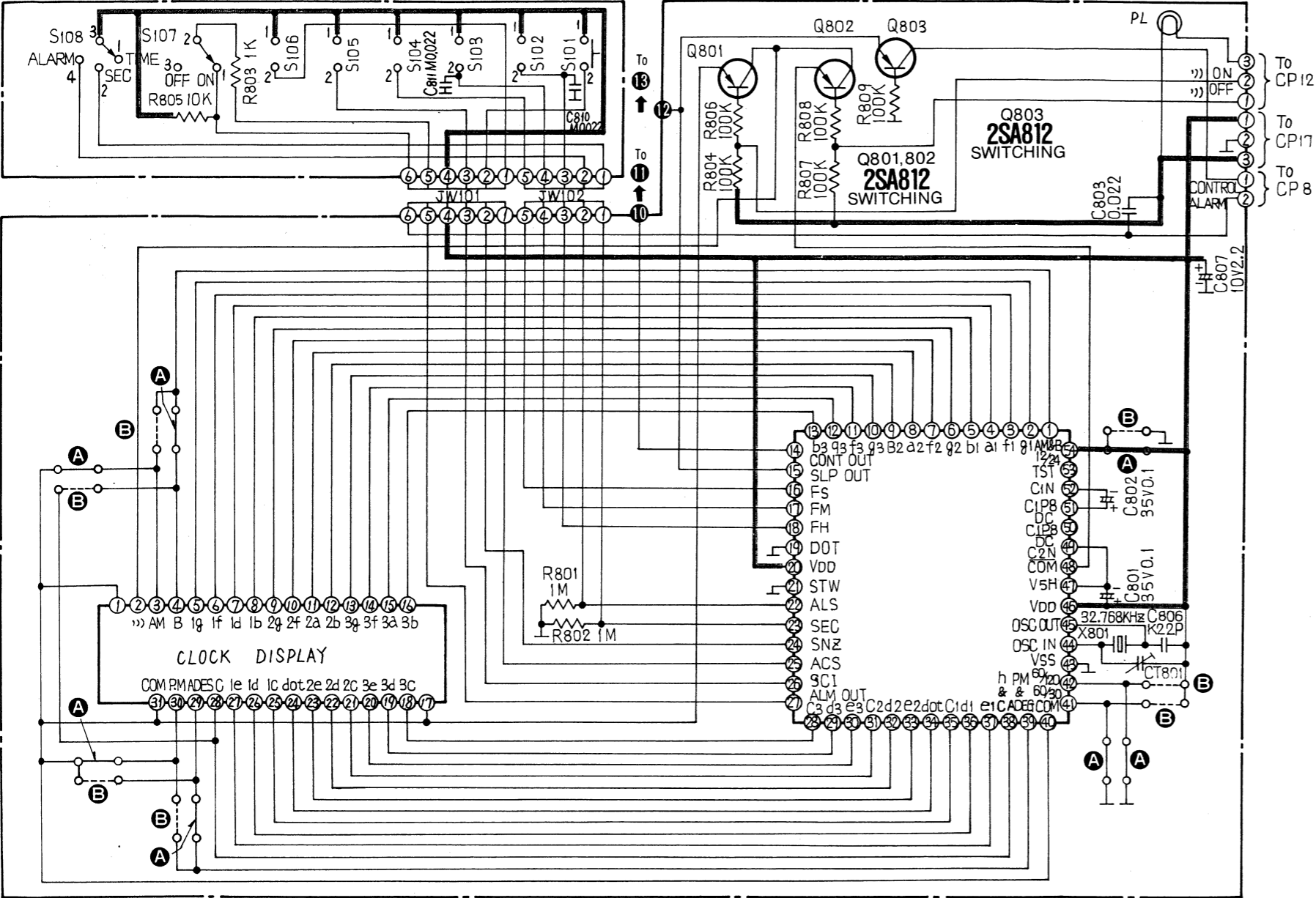
■ FREQUENCY DISPLAY CIRCUIT BOARD



■ KEY BOARD CIRCUIT BOARD

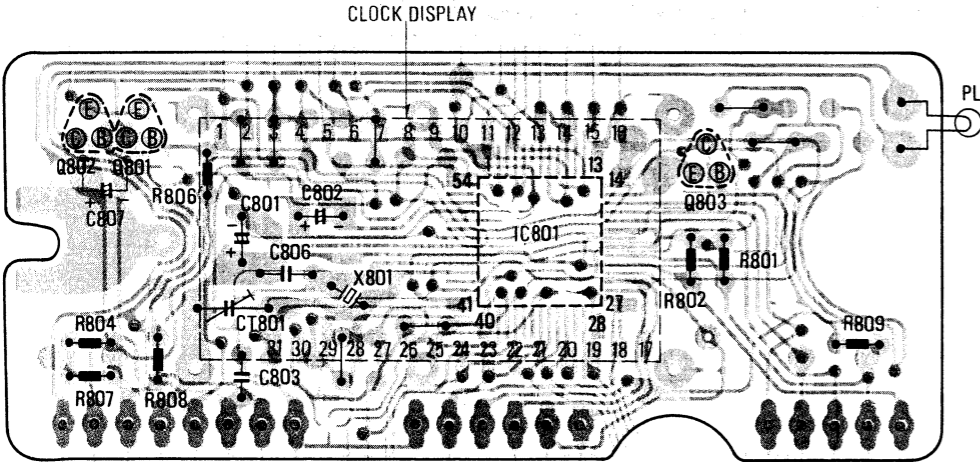


SCHEMATIC DIAGRAM (CLOCK & SWITCH CIRCUIT BOARD)

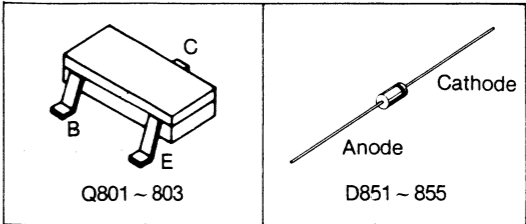
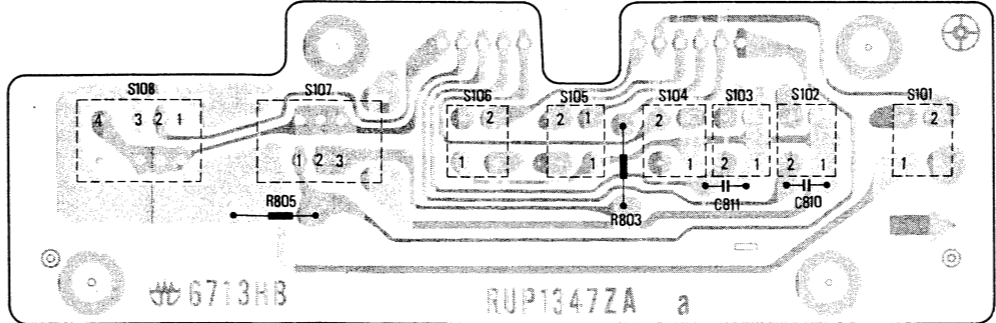


NOTE: The clock section is designed for 24H & 12H indication.
 A : 24H indication
 B : 12H indication

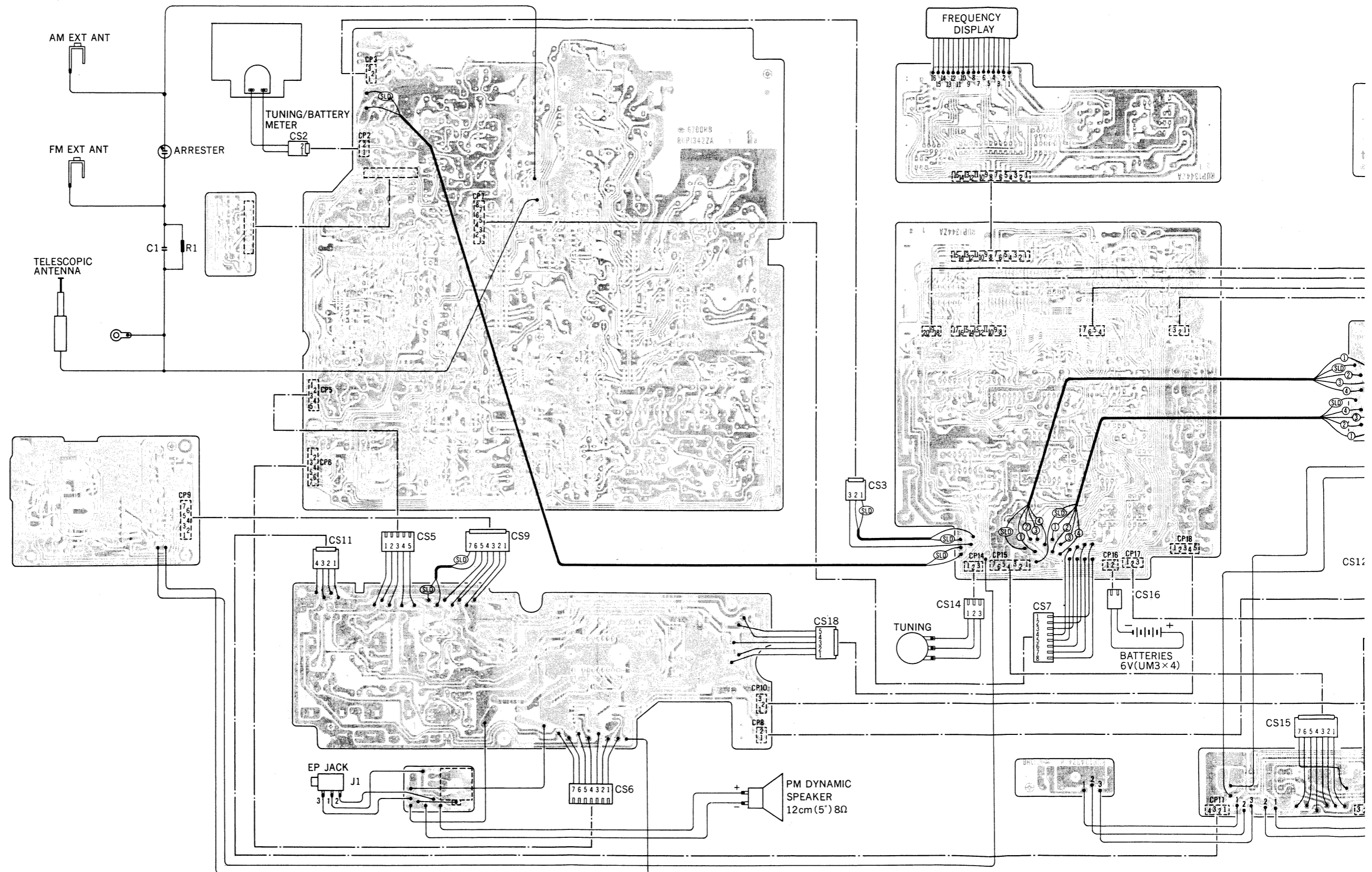
CLOCK CIRCUIT BOARD



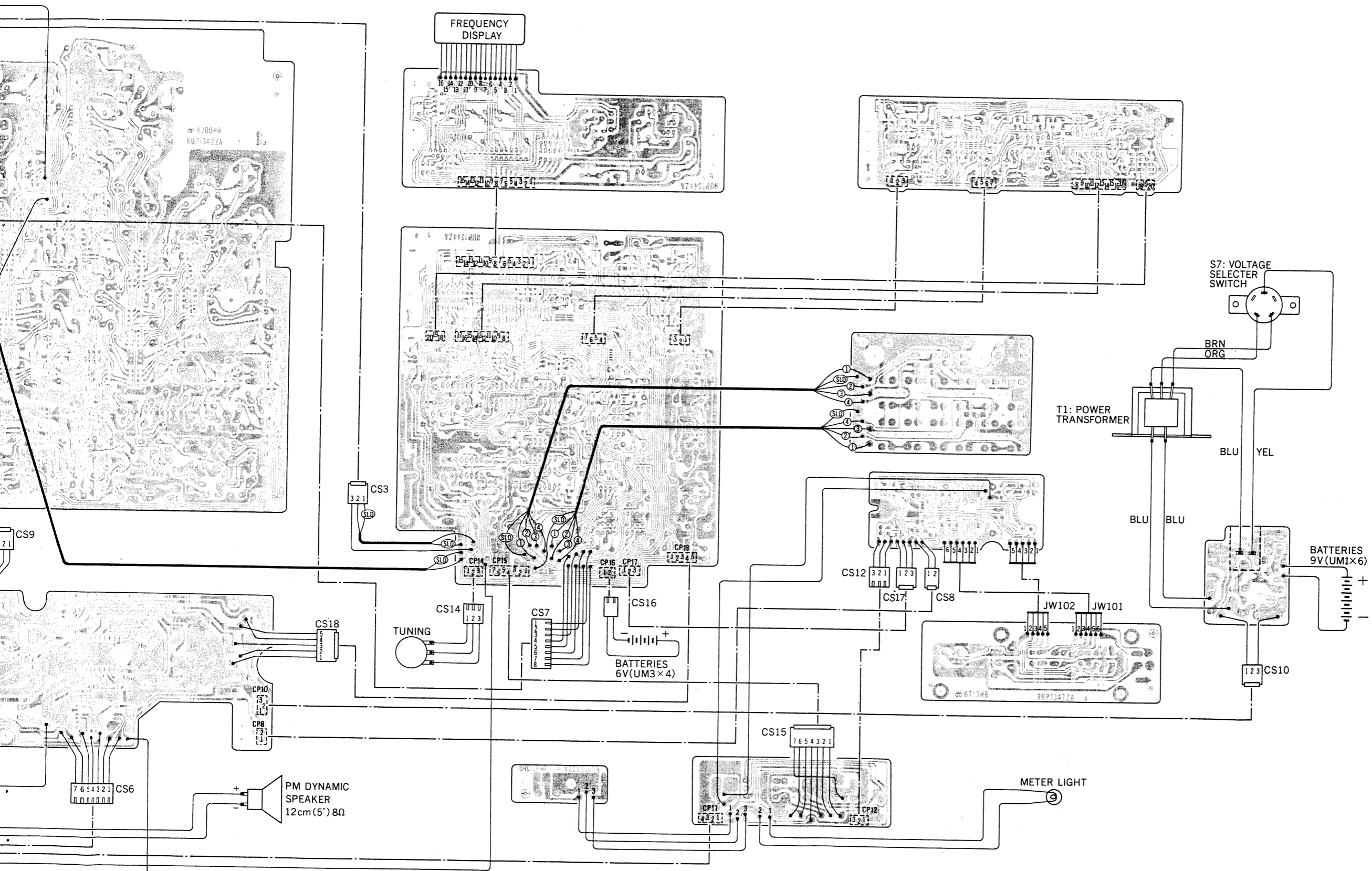
SWITCH CIRCUIT BOARD (CLOCK)



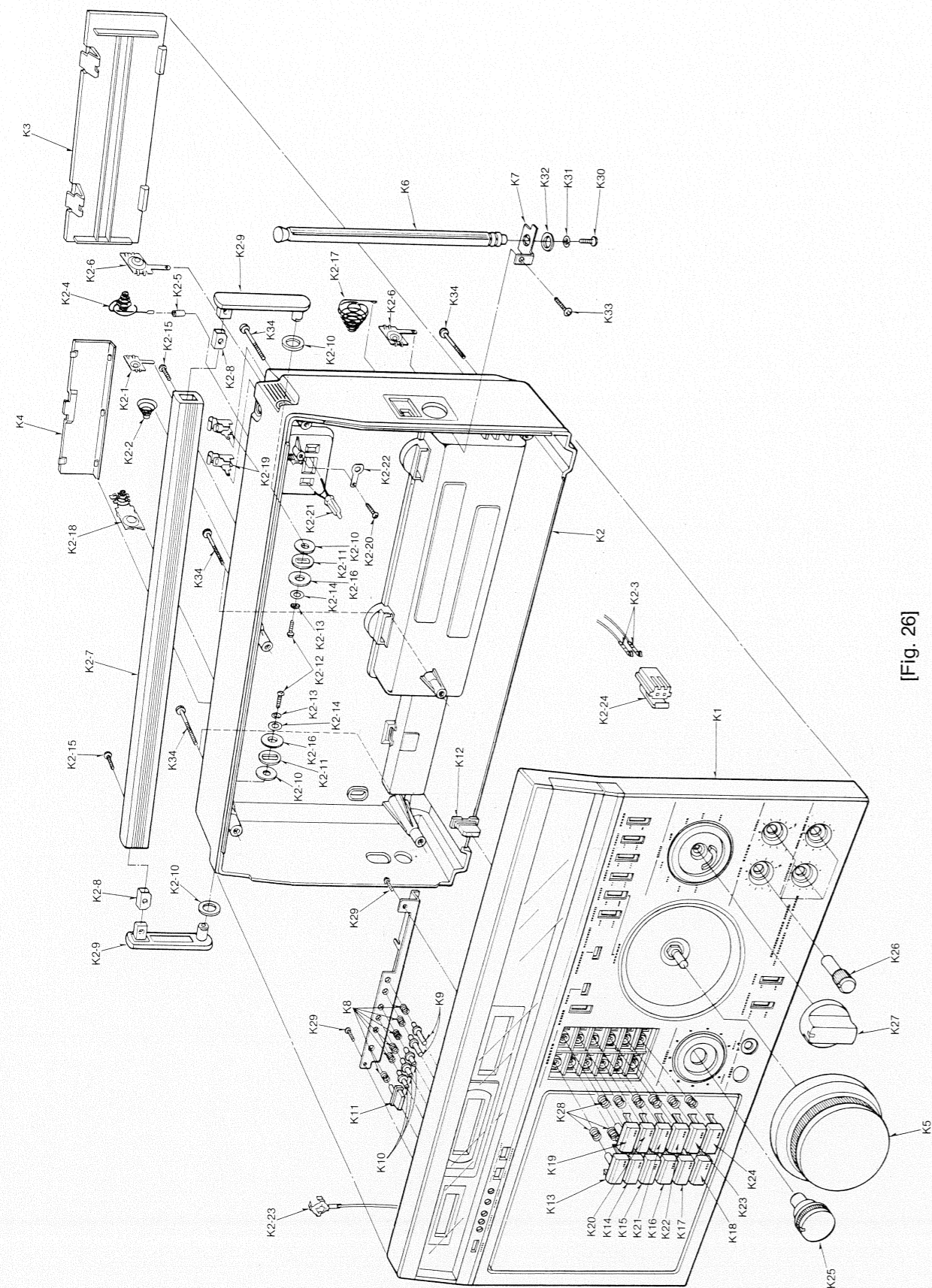
WIRING CONNECTION DIAGRAM MODEL RF-6300LBS



WIRING CONNECTION DIAGRAM MODEL RF-6300LBS

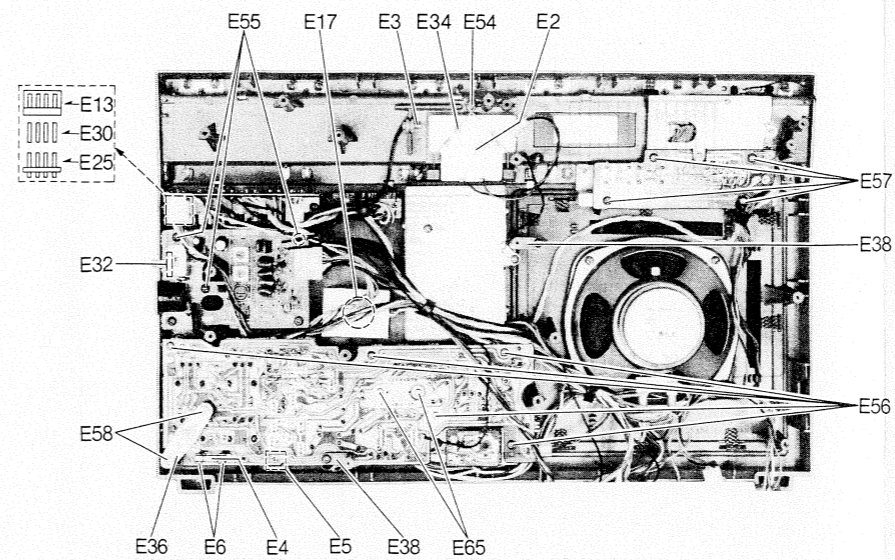


CABINET PARTS

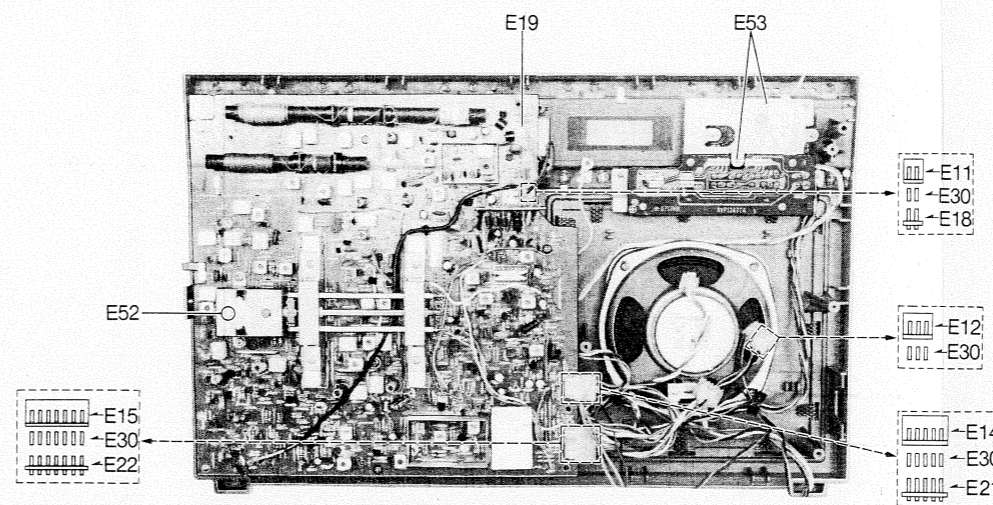


[Fig. 26]

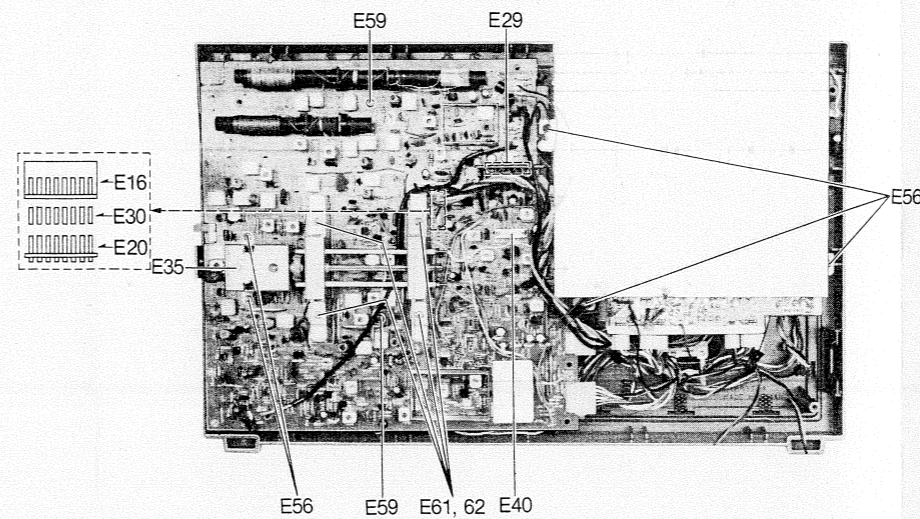
ELECTRICAL PARTS



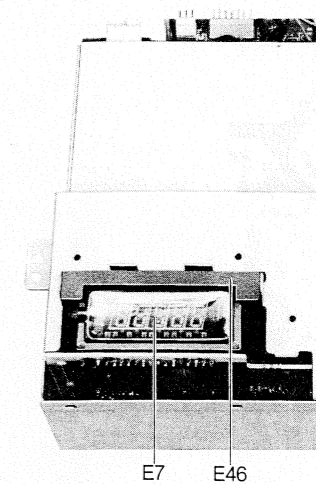
[Fig. 27]



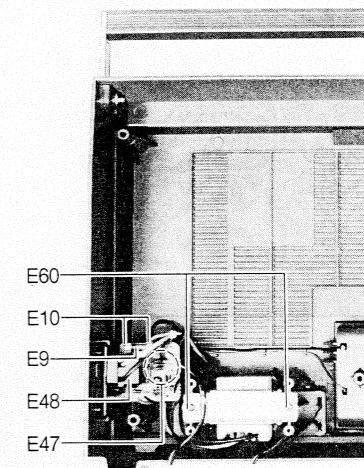
[Fig. 29]



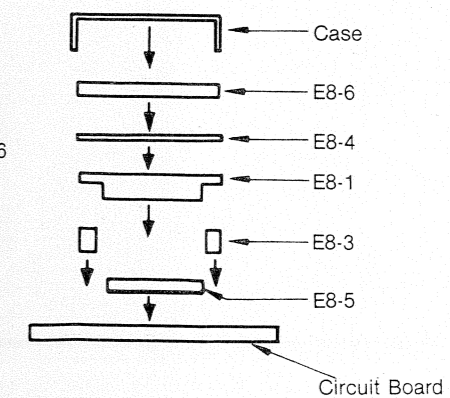
[Fig. 31]



[Fig. 28]



[Fig. 30]

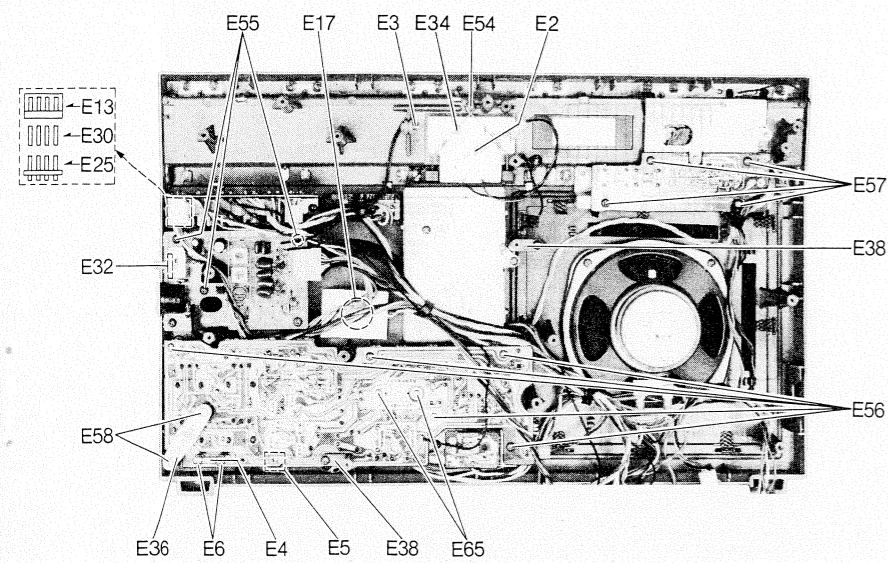


[Fig. 32]

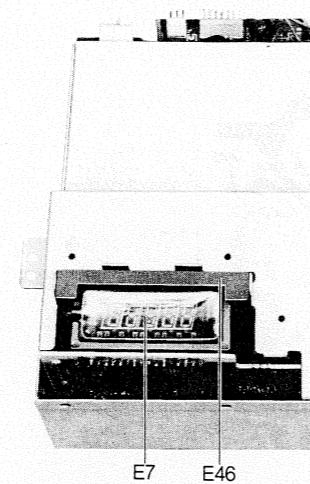
E8
E33
E8-2
E49

E39

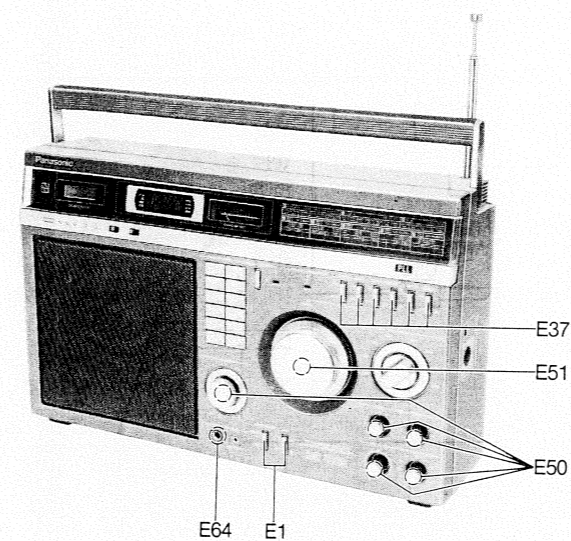
ELECTRICAL PARTS



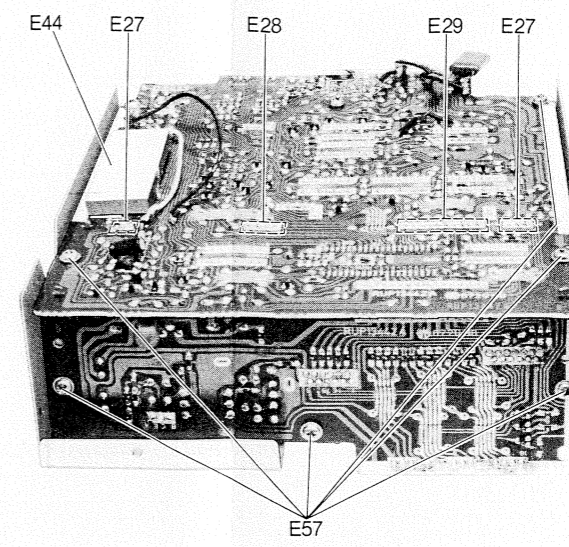
[Fig. 27]



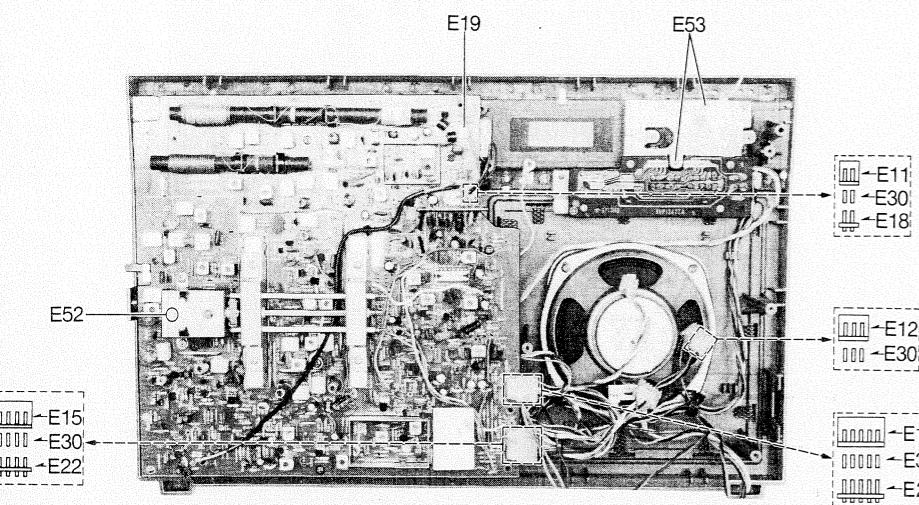
[Fig. 28]



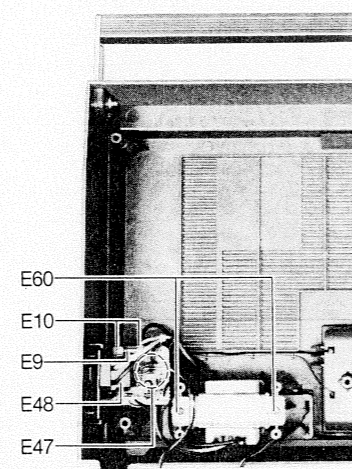
[Fig. 33]



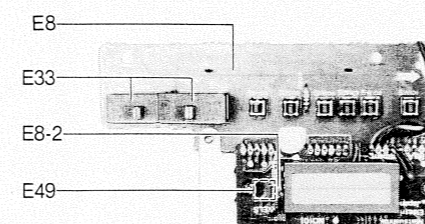
[Fig. 34]



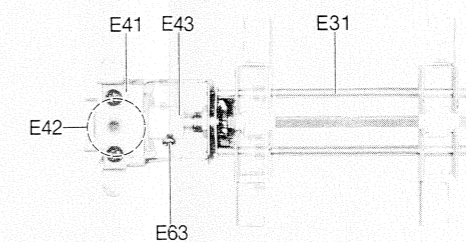
[Fig. 29]



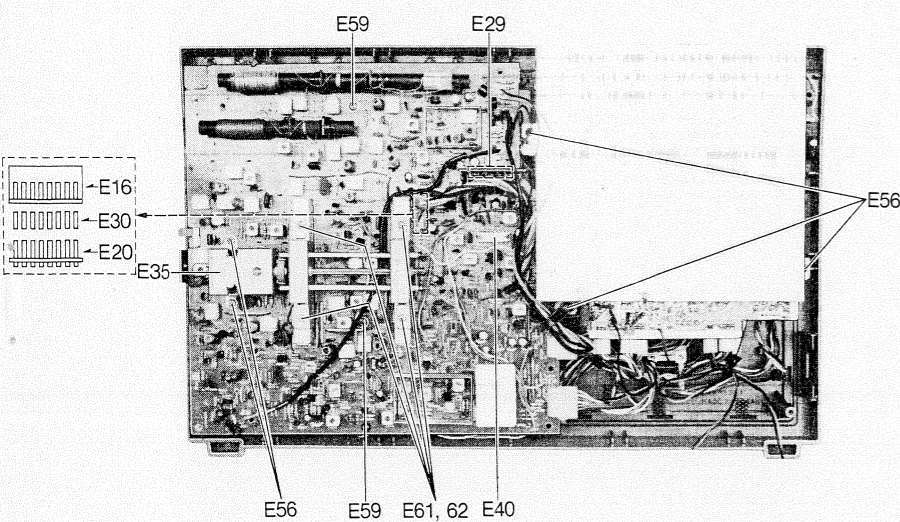
[Fig. 30]



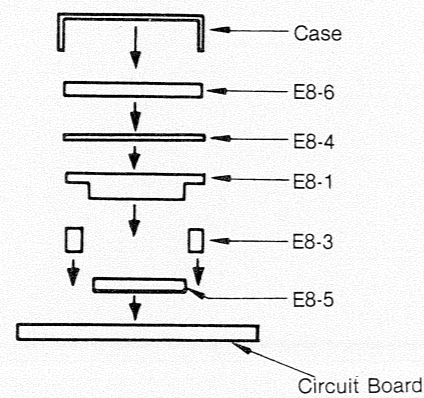
[Fig. 35]



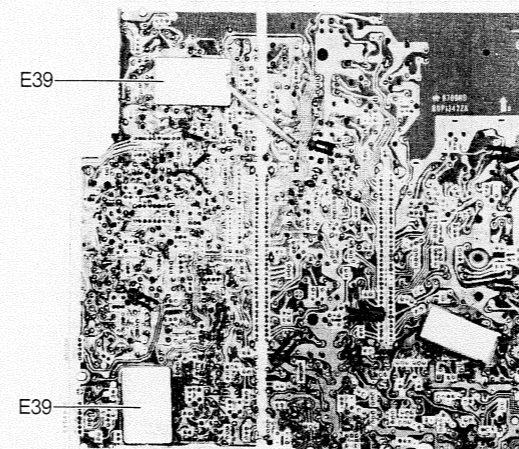
[Fig. 36]



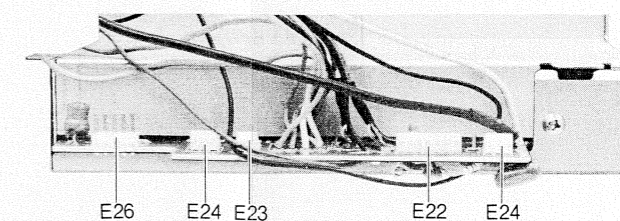
[Fig. 31]



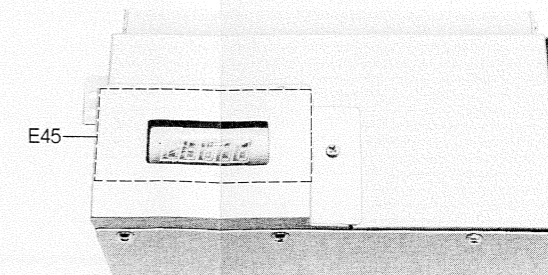
[Fig. 32]



[Fig. 37]



[Fig. 38]



[Fig. 39]

■ REPLACEMENT PARTS LISTModel RF-6300LBS (RD81035193S2)

NOTES: 1. Δ indicates that only parts specified by the manufacturer be used for safety.
2. The S mark indicates service standard parts and may differ from production parts.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
		INTEGRATED CIRCUITS, TRANSISTORS AND DIODES		
IC101	RVILA1210	IC	1	
IC501	RVIMC14016B	IC	1	
IC502	AN7911	IC	1	
IC503	MN6147	IC	1	
IC601,651	RVIMC4069UB	IC	2	
IC602~604	RVIMC14001B	IC	3	
IC605,606	RVIMC4013B	IC	2	
IC652	RVIMP4763	IC	1	
IC653	MN1203	IC	1	
IC751,752	RVITA57	IC	2	
IC901	RVILA4125	IC	1	
Q101,201, 304,908	209,300, 667			
	2SK212	Transistor (Si)	7	
Q102,106, 323,324	210,312,317, 326,329			
	2SC1359	Transistor (Si)	9	
Q103,104, 211~213, 311,313	107,205,206, 302,306~309, 314			
	2SA838	Transistor (Ge)	16	
Q108,109, 310,327, 907,951	112,207, 902,906, 952			
	2SC945	Transistor (Si)	11	
Q113,115	116,904			
	2SA564	Transistor (Ge)	4	
Q117,204	301,325			
	2SC1684	Transistor (Si)	4	
Q303	2SK104	Transistor (Si)	1	
Q305	2SC1583	Transistor (Si)	1	
Q501,502	2SC2295	Transistor (Si)	2	
Q503,509	511,513, 612,662			
	665,670			
	2SC1623	Transistor (Si)	8	
Q512,607~ 664,666	609,652~661, 751~753,801~803			
	2SA812	Transistor (Ge)	22	
Q663,668	909			
	2SD352	Transistor (Si)	3	
Q672	2SC1567	Transistor (Si)	1	
Q671	2SD601	Transistor (Si)	1	
Q754,901	2SC2001	Transistor (Si)	2	
Q755	2SC1302	Transistor (Si)	1	
Q903	2SB544	Transistor (Ge)	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
Q953,954	2SC828	Transistor (Si)	2	
D101,102	103			
	MA323RR	Diode (Si)	3	
D104,106, 202,663	201, 666			
	OA90	Diode (Ge)	6	
D107,108	MA27B1	Diode (Si)	2	
D205,208	209,211,212, 220~222,307~318,320, 501,502,602,603,609, 615,661,664,665,751, 752,904~907,909			
	MA161	Diode (Si)	37	S
D601,604	607			
	MA151WK	Diode (Si)	3	
D213	RVDKB265G	Diode (Si)	1	
D214	RVDS113	Diode (Si)	1	S
D216~219	20A90	Diode (Ge)	4	S
D301,302	303			
	RVDKV1225S	Diode (Si)	1	
D658,660	753,903			
	RVDEQA0105T	Diode (Si)	4	
D662	RVDRD30EB2	Diode (Si)	1	
D851~855	SM112	Diode (Si)	5	S
D504,612	617,651			
	MA151WA	Diode (Si)	4	
D901,902	LN217RP	Diode (Ga)	2	
D908	MA27B2TA	Diode (Si)	1	
		CRYSTAL		
X201	RVCX3055NRN	Crystal (3.055MHz)	1	
X501	RVCA4500NZN	Crystal (4.5MHz)	1	
X801	RVCQ32N5Z1	Crystal	1	
		COILS AND TRANSFORMERS		
L101	SLA4N2	Antenna 1st Coil, FM	1	
L102	RLO4N134	Antenna 2nd Coil, FM	1	
L104	RLD4M10	Oscillator Coil, FM	1	
L203	RLO9M8	BFO Coil	1	
L204	RLO3M17	2nd Local Coil, SW1	1	
L301	RLF6F22	Antenna Coil, LW, MW	1	
L303	RLF3W2	Antenna 1st Coil, SW1	1	
L304,309	RLA3M12	Antenna 1st, 2nd Coil, SW2	2	
L305,311	RLO3M12	Antenna 1st, 2nd Coil, SW3	2	
L306,312	RLA3N19	Antenna 1st, 2nd Coil, SW4	2	
L307	RLA3N21	Antenna Coil, SW5	1	
L308	RLO3M21	Antenna 2nd Coil, SW1	1	
L313	RLA3N20	Antenna 1st, 2nd Coil, SW5	1	
L314	RLO1M10	Oscillator Coil, LW	1	
L316	RLO2M27	Oscillator Coil, MW	1	
L317	RLO3M25	Oscillator Coil, SW1	1	
L318	RLO3M24	Oscillator Coil, SW2	1	
L319	RLO3M80	Oscillator Coil, SW3	1	
L321	RLO3N13	Oscillator Coil, SW4	1	
L322	RLO4N78	Oscillator Coil, SW5	1	
L952	RLE5023	Notch Filter, 2.5KHz	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
L953,954	RLE5024	Notch Filter, 5, 7.5KHz	2	
T1	RLT5U13	Power Transformer	1	
T100	RLI4M103	IF Trap, FM	1	
T101,102	RLI4M101	IFT, FM	2	
T103	RLI2M402	Detector, AM	1	
T201,203	RLI2M204	IFT, AM	2	
T202,207,208	RLI2M207	IFT, AM	3	
T204	RLI9M1	1st IFT, 2.6MHz	1	
T206	RLI9M2	1st IFT, 2.6MHz	1	
T651	RLT9Z4	DC-DC Converter Transformer	1	
T751	RLT9F2	DC-DC Converter Transformer	1	
VARIABLE RESISTORS				
VR101	EVNK4AA00B13	Preset, 1k Ω (B), Meter Control	1	
VR901,902,905	EVH7XAF20B54	Variable Resistor, 50k Ω (B), Bass, Treble & BFO Pitch Control	3	
VR903	EVH7XAF20D54	Variable Resistor, 50k Ω (D), Volume Control	1	
VR904	EVH7XAF20A54	Variable Resistor, 50k Ω (A), RF Gain Control	1	
VARIABLE CAPACITORS				
CT101,102	RCV1PX10AGS	Trimmer Capacitor	2	
CT103,301	~303,309	Trimmer Capacitor	5	
CT801	RCV1PX20AGS	Trimmer Capacitor	1	
CT304,306,307,308,311	~319,321~323	Trimmer Capacitor	15	
CERAMIC FILTERS				
CF101~103	RVFCF10M12FR	Ceramic Filter	3	
CF104	RVFCFU455JT5	Ceramic Filter	1	
THERMISTER				
TH1	RRT302	Thermister	1	
SPEAKER				
SP	EAS12P83GG	Speaker, 12cm (5"), 8 Ω	1	
SWITCHES				
S1~6	RSHX029Z	Switch, Selector	1	
S7	RSR4A04Y	" Voltage Selector	1	
S8	Refer to J3	" AC/DC Selector	1	
S9,10	RSH2B18Z	" BFO & Band Width	2	
S11~23	RSH1A20Z	" Cancel/Memory & Channel	13	
S24	RSS42A	" Radio/Phone Selector	1	
S101~106	EVQQ4R13K	" Clock	6	
S107	RSS2B23Z	" Chirp	1	
S108	RSS3B11Z	" Clock Display	1	
S301,302	ESRK68S1	" Band Selector	2	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
JACKS				
J1	RJJ19Z	Jack, Earphone	1	
J2	RJJ108Y	" Headphones	1	
J3	QJS0329	" AC/DC IN	1	
J4	RJS15A	" DIN	1	
RESISTORS (Value is in OHMS)				
R101,114,123,127,249,355,271	116,122,146,239,271	220 1/4W Carbon	11	S
R1,102,108~111,115,139,150,214,246,273,329,358,416,805,921,925,952	ERD25FJ221	10 k " "	28	S
R103,231,306,308,935,961	ERD25FJ103	4.7 k " "	15	S
R104,318	ERD25FJ472	68 k " "	5	S
R338	ERD25TJ683	10 " "	1	S
R325,509	ERD25FJ100	33 " "	2	S
R304,305	ERD25FJ330	360,942,943	5	S
R311	ERD25FJ470	47 " "	1	S
R131	ERD25FJ182	1.8 k " "	1	S
R203,314,413,120,933,148	ERD25FJ820	82 " "	1	S
R303	ERD25FJ101	100 " "	9	S
R107,117	ERD25FJ151	150 " "	1	S
R931	ERD25FJ471	470 " "	3	S
R128	ERD25FJ393	39 k " "	1	S
R113,119,312,906,402	ERD25FJ561	560 " "	1	S
R121,126,202,223,248,254,332,334,353,391,932,928	ERD25FJ681	680 " "	7	S
R143,400	ERD25FJ102	1 k " "	27	S
R137,218,291,406,908,941,957	ERD25FJ152	1.5 k " "	4	S
R144,241,954,958	ERD25FJ222	2.2 k " "	11	S
R129,956	ERD25FJ332	3.3 k " "	9	S
	ERD25FJ392	3.9 k " "	2	S

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R118,134,911,913	265,392,645,914,923 ERD25FJ223	22 k 1/4W Carbon	9	S
R112,124,161,208,262,272	133,158,226,244,317,396 ERD25FJ333	33 k " "	12	S
R270	ERD25TJ824	820 k " "	1	S
R106,145,302,604	205,253,922,937 ERD25FJ473	47 k " "	8	S
R147,152,233,252,335,341	160,206,207,260,300,327,343,901 ERD25TJ104	100 k " "	15	S
R151,251,953,963	309,397,967 ERD25TJ154	150 k " "	7	S
R136,142	393,905,938 ERD25TJ224	220 k " "	5	S
R394,301	ERD25TJ334	330 k " "	2	S
R159,255	263,264 ERD25FJ331	330 " "	4	S
R238	ERD25TJ684	680 k " "	1	S
R201,261	603 ERD25TJ105	1 M " "	3	S
R141,149	345 ERD25FJ682	6.8 k " "	3	S
R140,640	ERD25FJ153	15 k " "	2	S
R966	ERD25FJ563	56 k " "	1	S
R130,135,340,349	204,228,339,350,356,357 ERGLANJ470	47 1W Metal Oxide	10	S
R920	ERD25FJ150	15 1/4W Carbon	1	S
R156	ERD25FJ821	820 " "	1	S
R157	ERD25FJ122	1.2 k " "	1	S
R533,534	RRD18XK101	100 1/8W Chip	2	
R507	RRD18XK221	220 " "	1	
R504,686	RRD18XK471	470 " "	2	
R503	RRD18XK681	680 " "	1	
R505,532	647,783 RRD18XK102	1 k " "	4	
R521	RRD18XK152	1.5 k " "	1	
R697	RRD18XK153	15 k " "	1	
R508,512,536,541	513,524,528,688,701 RRD18XK103	10 k " "	9	
R501,502,638,657,673,676	523,609,637,663,668,671,703,666,704 RRD18XK223	22 k " "	15	
R537,616	RRD18XK333	33 k " "	2	
R529	RRD18XK184	180 k " "	1	
R506	RRD18XK474	470 k " "	1	
R330	ERD25FJ220	22 1/4W Carbon	1	S
R430	ERD25FJ153	15 k " "	1	S

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R511,519,654,659,662,664,667,669,672,674,677,678,751~754,756~759,761~764,766~769,771~774,776~779,781,782,606,607,804,806~809	617~619,648,654,659,662,664,667,669,672,674,677,678,751~754,756~759,761~764,766~769,771~774,776~779,781,782,606,607,804,806~809 RRD18XK104	100 k 1/8W Chip	49	
R684,939	ERGLANJ151	150 1W Metal Oxide	2	S
R789	RRD18XK821	820 1/8W Chip	1	
R687,784	RRD18XK122	1.2 k " "	2	
R788	RRD18XK222	2.2 k " "	1	
R801,802	RRD18XK105	1 M " "	2	
R526,702	RRD18XK332	3.3 k " "	2	
R658,661	698 RRD18XK472	4.7 k " "	3	
R699	RRD18XK682	6.8 k " "	1	
R786,787	RRD18XK392	3.9 k " "	2	
R711	RRD18XK393	39 k " "	1	
R679,681	682,683,712 RRD18XK473	47 k " "	5	
R691	RRD18XK154	150 k " "	1	
R693	RRD18XK224	220 k " "	1	
R692	RRD18XK394	390 k " "	1	
R605	RRD18XK334	330 k " "	1	
R531,601,641,644	602,611,631,694,696 RRD18XK105	1 M " "	9	
R904,924	926 ERD25TJ155	1.5 M 1/4W Carbon	3	S
R927,930	ERD25TJ823	82 k " "	2	S
CAPACITORS (Value is in MICRO FARADS except P.P=PICO FARADS)				
C312	ECCD1H151K	150 P 50V Ceramic	1	
C350,359	ECCD1H390KC	39 P " "	2	
C242	ECCD1H010C	1 P " "	1	
C116,129	ECCD1H020C	2 P " "	2	
C124	ECCD1H030C	3 P " "	1	
C231,259	ECCD1H050CC	5 P " "	2	
C1,101,117,333,336,367,377	17,300,308,337,363,365~381,391,392 ECCD1H100KC	10 P " "	16	
C301	ECCD1H120KC	12 P " "	1	
C119	ECCD1H150KC	15 P " "	1	
C237,303	416 ECCD1H180KC	18 P " "	3	
C248,338	412,414 ECCD1H220KC	22 P " "	4	
C239,304	393 ECCD1H330KC	33 P " "	3	
C112,417	ECCD1H470KC	47 P " "	2	
C271	ECCD1H680K	68 P " "	1	

Ref. No.	Part No.	Part Name & Description			Per Set	Remarks	Ref. No.	Part No.	Part Name & Description			Per Set	Remarks
C111,114,122,157,383,386,618	118,121,159,261,618						C212,213,668,901	632,661,662,904,922,951					
	ECKD1H102MD	0.001	50V	Ceramic	11			ECEA50Z1	1	50V	Electrolytic	10	S
C201,634	ECKD1H102ZF	0.001	"	"	2		C162,666	ECEA50Z2R2	2.2	"	"	2	S
C104,106,143,144,224,230,267,281,321,323,250,382,407,408	108,133,138,149,204,223,255,290,253,310,317,320,325,329,330,384,389,406,335,851,854						C254,603,912,914,952	ECEA50ZR1	0.1	"	"	6	S
	ECKD1H103ZF	0.01	"	"	38		C410,631	ECEA50ZR33	0.33	"	"	2	S
C131,135,161,147,378,525,619	137,158,267,349,619						C517	ECQE1335KZ	3.3	100V	Polyester	1	
	ECKD1H103MD	0.01	"	"	12		C513	ECUX1H390KC	39 P	50V	Chip	1	
C241,246	ECKD1H682MD	0.0068	"	"	3		C514	ECUX1H820KC	82 P	"	"	1	
C151,205,238,390,811,920	206,233,398,810,291,617						C507,608	ECUX1H102ZF	0.001	"	"	2	
	ECFTD223MD	0.022	25V	"	12		C524	ECUX1H222MD	0.0022	"	"	1	
C139,141	ECFTD473MD	0.047	"	"	5		C509,515,623,624,667,605,615	ECUX1H103ZF	0.01	"	"	13	
C203,909	ECFVD333MD	0.033	"	"	2		C519	ECUX1H103MD	0.01	"	"	1	
C228,264	ECKD1H471KB	470 P	50V	"	4		C502,504,652,754,803	ECUX1H223ZF	0.022	"	"	6	
C145	ECFVD683MD	0.068	25V	Semi-Conductor	1		C518,602	ECUX1H223MD	0.022	"	"	2	
C326,327	ECKD1H223MD	0.022	50V	Ceramic	4		C501,680	ECUX1H101KD	100 P	"	"	2	
C306,413	ECMS05560KH	56 P	"	Mica	2		C678	ECUX1H680KC	68 P	"	"	1	
C334,415	ECMS05680KH	68 P	"	"	1		C657	ECKD1H681KB	680	"	Ceramic	1	
C243	ECMS05820KH	82 P	"	"	2		C653	ECUX1H330KC	33 P	"	Chip	1	
C234,251	ECMS05121JH	120 P	"	"	1		C621	ECUX1H331KD	330 P	"	"	1	
C759	ECQG05473MZ	0.047	"	Polyester	1		C503,609,611	ECUX1H102MD	0.001	"	"	3	
C236	ECMS05161JH	160 P	"	Mica	1		C628,670,677	ECUX1H472MD	0.0047	"	"	9	
C351	ECMS05131JH	130 P	"	"	1		C806	ECUX1H220KC	22 P	"	"	1	
C411	ECMS05680JH	68 P	"	"	1		C757,758	ECEA0JS102	1000	6.3V	Electrolytic	2	S
C364	ECMS05820JH	82 P	"	"	1		C658	ECEA1CS221	220	16V	"	1	S
C352	ECQS2B471JZ	470 P	125V	Styrol	1		C751	ECEA1VS330	33	35V	"	1	S
C263	ECQS2B561JZ	560 P	"	"	1		C659	ECEA1HS470	47	50V	"	1	S
C354	ECQS2B821JZ	820 P	"	"	1		C322	ECEA50Z3R3	3.3	"	"	1	S
C356,357	ECQS2B152JZ	1500 P	"	"	2		C523,665,752,753	ECEA1JS4R7	4.7	63V	"	4	S
C353	ECQS2B182KZ	1800 P	"	"	1		C409,521,601	ECEA50ZR22	0.22	50V	"	3	S
C358	ECQS2B222KZ	2200 P	"	"	1		C607	ECEA50ZR47	0.47	"	"	1	S
C134,142,318,399	202,266,400,940						C924,927	ECCD1H270KC	27 P	"	"	2	
	ECEA1CS330	33	16V	Electrolytic	8	S	C154,163,906	ECKD1H222MD	0.0022	"	"	3	
C156,164	ECEA1AS470	47	10V	"	4	S	C244,269,930	ECCD1H331K	330 P	"	"	3	
C148,152,266,664	166,227,229,923,931						C911	ECKD1H332MD	0.0033	"	"	1	
	ECEA1AS101	100	"	"	9	S	C610,934,937,756	ECQG05224MZ	0.22	"	Polyester	4	
C512,606	ECEA1HS100	10	50V	"	2	S	C655,905,964	ECEA1AS221	220	10V	Electrolytic	3	S
C770	ECCD1H331K	330 P	"	Ceramic	1		C669,921,932,933	ECEA1ES101	100	25V	"	4	S
							C913,812	ECEA1CS471	470	16V	"	2	S
							C936,938	ECEA1CS102	1000	"	"	2	S

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C939	ECEA1CS222	2200 16V Electrolytic	1	S
C953,954	ECQG05473KZ	0.047 50V Polyester	2	
C956~959	ECQG05104KZ	0.1 " "	4	
C807	ECSFLAM225	2.2 10V Electrolytic	1	
C801,802	ECSFLVM104	0.1 35V "	2	
CABINET PARTS				
K1	RYMF6300LBS8	Front Cabinet Ass'y	1	
K2	RYFF6300LBS7	Rear Cabinet Ass'y	1	
K2-1	RJC717A	Battery Terminal, Back-up + Side	1	
K2-2	RJC322Z	Battery Spring, Back-up - Side	1	
K2-3	RJT462Z	Terminal, Socket	2	
K2-4	RJC505Z	Battery Spring, - Side	1	
K2-5	RJT398Y	Pipe, Battery Spring	1	
K2-6	RJC111Z	Battery Terminal, + Side	2	
K2-7	RKX206Z	Handle	1	
K2-8	RKX207Z	Spacer, Handle	2	
K2-9	RKX180Z	Arm, Handle	2	
K2-10	RNW824Y	Nylon Washer, Handle	4	
K2-11	RHM58Z	Washer, Handle	2	
K2-12	XSN3+8S	Screw	2	S
K2-13	XWA3B	Washer	2	S
K2-14	XWG3	Washer	2	S
K2-15	XTB3+8BFN	Screw	2	S
K2-16	XWG3F13	Washer	2	
K2-17	RJC508Z	Battery Spring, - Side	1	
K2-18	RJC730Z	Battery Terminal, + - Side	1	
K2-19	RJF1065Z	Terminal, EXT ANT	2	
K2-20	XTV3+10G	Screw	1	
K2-21	XANR2T20	Arrester	1	
K2-22	RJT202B	Terminal	1	
K2-23	RJT514Z	Terminal	1	
K2-24	RJS171Z	Socket, 2 Pin	1	
K3	RYN1F6300LBS	Battery Cover Ass'y, Large	1	
K4	RYN2F6300LBS	Battery Cover Ass'y, Small	1	
K5	RYT2F6300LBS	Tuning Knob Ass'y	1	
K6	XEARS158HAY	Telescopic Antenna	1	
K7	RMA151Z	Bracket, Telescopic Antenna	1	
K8	RDS3052Z	Spring, Clock Adjust	6	
K9	RBC306Z	Button, Sleep & Cancel	2	
K10	RBC307Z	" Time Set	3	
K11	RBC308Z	" Doze	1	
K12	RBC311Z	" Cancel/Memory	1	
K13	RBC312Z	" CH1	1	
K14	RBC312Y	" CH2	1	
K15	RBC312X	" CH3	1	
K16	RBC312W	" CH4	1	
K17	RBC312V	" CH5	1	
K18	RBC312U	" CH6	1	
K19	RBC312T	" CH7	1	
K20	RBC312S	" CH8	1	
K21	RBC312R	" CH9	1	
K22	RBC312Q	" CH10	1	
K23	RBC312P	" CH11	1	
K24	RBC312N	" CH12	1	
K25	RBN551Z	Knob, Volume	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
K26	RBN489X	Knob, Tone, BFO Pitch & RF Gain	4	
K27	RBS173Z	Knob, Band Selector	1	
K28	RUS2B	Spring, Preset Button	12	
K29	XTN23+8C	Screw	2	
K30	XSN3+8S	Screw	1	S
K31	XWA3B	Washer	1	S
K32	XWG3	Washer	1	S
K33	XTV3+12G	Screw	1	
K34	XTB3+35BFN	Screw	6	S
ELECTRICAL PARTS				
E1	RYT1F6300LBS	Button Ass'y, Band Width & BFO	2	
E2	RSM1601Z	Meter	1	
E3	XAMR43S250A	Pilot Lamp	1	
E4	XBA2C03TR0	Fuse	1	△
E5	XBE10M96S	Fuse	1	△
E6	RJF7A	Fuse Holder	2	△
E7	RAD5BT-11	Frequency Display	1	
E8	RSC19610Y	Clock Ass'y	1	
E8-1	RADLDBU122D	LCD	1	
E8-2	XAMR87T25	Pilot Lamp	1	
E8-3	RHG5003Z	Zebra	2	
E8-4	RHR1074Z	Spacer	1	
E8-5	RDH158Z	Reflection Plate	1	
E8-6	RGP562Z	Polarization Plate	1	
E9	XBA2C16TR0	Fuse	1	△
E10	QTF1054	Fuse Holder	2	△
E11	RJS171Z	Socket (2P), CS2 & CS8	2	
E12	RJS253Y	Socket (3P), CS3, 10, 12, 14, 17	5	
E13	RJS216Y	Socket (4P), CS11	1	
E14	RJS217Y	Socket (5P), CS5, 18	2	
E15	RJS219Y	Socket (7P), CS6, 9, 15	3	
E16	RJS264Y	Socket (8P), CS7	1	
E17	EWTXD4S2540B	Rotary Encoder	1	
E18	RJP213Z	Plug (2P), CP2	1	
E19	RJP137Z	Plug (3P), CP3 & CP12	2	
E20	RJP171Z	Plug (8P), CP7	1	
E21	RJP136Z	Plug (5P), CP5	1	
E22	RJP135Z	Plug (7P), CP6, CP9 & CP15	3	
E23	RJP241Z	Plug (2P), CP8 & CP16	2	
E24	RJP133Z	Plug (3P), CP10, CP14, CP17	3	
E25	RJP107Z	Plug (4P), CP11	1	
E26	RJP116Z	Plug (5P), CP18	1	
E27	RJT665Z	Terminal, (3P)	2	
E28	RJT671Z	Terminal, (4P)	1	
E29	RJT668Z	Terminal, (10P)	2	
E30	RJT462Z	Terminal, Socket	62	
E31	ESRK208F25A	Band Switch Shaft Ass'y	1	
E32	RUV612Z	Cover, Radio/Phone Switch	1	
E33	RUV613Z	Cover, Clock Display & Chirp	2	
E34	RUS423Z	Spring, Meter Mtg	1	
E35	RDF865Z	Shaft, Band Selector	1	
E36	RKE350Z	Stay Shaft, P,C Board	1	
E37	RBC300Z	Button, Radio, Speed & etc.	6	
E38	RHR1023V	Stay Shaft, P,C Board	2	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
E39	RMC228A	Shield Plate	3	
E40	RMC171Y	Shield Plate, IC101	1	
E41	RMW201Z	Bracket, Band Selector	1	
E42	RDG5695Z	Gear, Band Selector	1	
E43	RDG5696Z	Gear, Band Selector	1	
E44	RMC736Z	Shield Plate	1	
E45	RGP671Z	Smoke Panel	1	
E46	RHG1011Z	Rubber, Frequency Display	1	
E47	RUV387Z	Cover, Voltage Selector Switch	1	△
E48	RUV603Z	Cover, AC/DC IN Jack	1	△
E49	RME259Z	Bracket, Lamp Holder	1	
E50	XNS8	Nut	6	
E51	XNS9FZ	Nut	1	
E52	XUC2FT	Circlip, Band Selector Shaft	1	S
E53	XTN23+8B	Screw	2	S
E54	XTV3+10G	Screw	1	
E55	XTV3+12G	Screw	21	
E56	XTV3+12GR	Red Screw	13	
E57	XTV3+6F	Screw	41	
E58	XTB3+35BFN	Screw	2	S
E59	XTW3+12QR	Red Screw	2	
E60	XYER3+BG14	Screw	2	
E61	XSN3+5S	Screw	4	S
E62	XWA3B	Washer	4	S
E63	XXAS3K5S	Screw	1	
E64	XNS12D	Nut	1	
E65	XYN3+F12	Screw	2	
ACCESSORIES				
	XEH1A1-P	Earphone	1	S
	RJA20Z	Power Cord, AC	1	△
	RQE13Z	Caution Tag	1	
PACKING MATERIALS				
	XZB60X50A04	Polyethylene Cover	1	
	XZB10X25A04	Polyethylene Cover	1	
	RPG2352Z	Packing Case	1	
	RPN9358Z	Pad	1	
	RPN3293Z	Pad	1	
	RPN3294Z	Pad	2	
	RPN3336Z	Pad	1	
	RPP401Z	Soft Cover	1	
PRINTED MATERIAL				
	RQX6642Z	Instruction Book	1	